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**M0003 DATA BASE
GUIDE BOOK**

**The Aerospace Corporation
2nd LDEF Post-Retrieval Symposium
San Diego, CA
1-5 June 1992**

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The Aerospace Corporation

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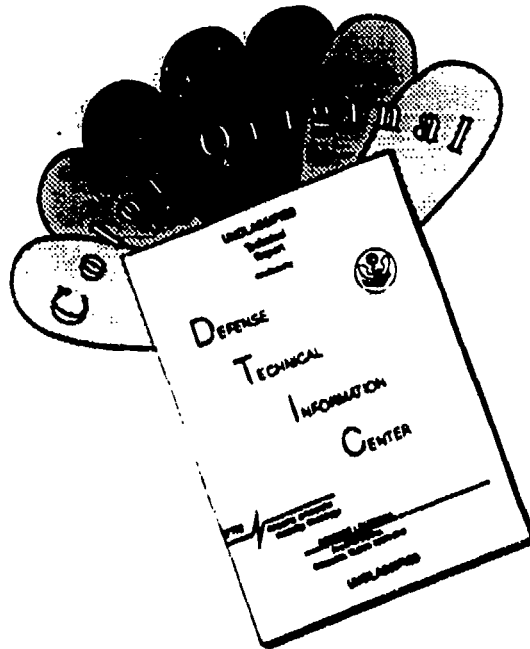
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Spacecraft Application

LDEF experiment M0003 samples, grouped by application and material category.

Adhesive Bond 64 Samples

Material Categories

Coating 27 samples

Soldal A, B, C, D, G, H,
J, K, O, P, Q, R
Teflon FEP/Ag/Inconel
with: Eccobond57C

Composite 22 samples

T-300/934 joint/
Hysol EA 9628 epoxy
HMF 220C/934-2024-HMF
330C/934 (9628), 250°F
HMF 330C/934-2024-HMF
300C/934 (9628), 250°F
HMF 330C/934-2024-HMF
330C/934 (9628), 250°F

Glass 4 samples

7 μ m quartz fabric

Metal 23 samples

Tedlar bonded to Al with
Isolack Y9469
Teflon FEP/Ag/Inconel
with: Eccobond57C
Kapton
Nato III
RTV 560+12% graphite
Y966
adhesive sheet
Thin film solar cells:
CuInSe₂/CdS
standard Si

Paint 4 samples

Black vacuum distilled
RTV 602

Polymer 49 samples

7 μ m quartz fabric
Black vacuum distilled
RTV 602
Soldal A, B, C, D, G, H,
J, K, O, P, Q, R
T-300/934 joint/
Hysol EA 9628 epoxy
Tedlar bonded to Al with
Isolack Y9469
Teflon FEP/Ag/Inconel
with: Eccobond57C
Kapton
Nato III
RTV 560+12% graphite
Y966
adhesive sheet
Thin film solar cells:
CuInSe₂/CdS
standard Si

Semiconductor 4 samples

Thin film solar cells:
CuInSe₂/CdS
standard Si

Antennae 16 Samples

Coating, polymer, metal 16 samples

Gold-plated knitted Dacron mesh
Gold-plated woven Dacron mesh
Plastic-metal mesh laminate
Solid plastic-metal laminate

Note:
Not all sample types in
each category shown.

Some sample types fit in several
categories.

Contamination Monitor 36 Samples

Coating
22 samples

Aluminized fused silica mirror
Coated quartz crystal microbalance (QCM) - active,
150A In203/9000A Al+Al2O3
Coated QCM- passive, 150A ZnS/9000A Al+Al2O3
Coating on 7940 fused silica, Delrin retainer, OCLI
Corning 7940 second surface aluminum mirror
Gold coated copper mirror
Gold coated nickel mirror

Glass
30 samples

Aluminized fused silica mirror
Coated quartz crystal microbalance (QCM) - active,
150A In203/9000A Al+Al2O3
Coated QCM- passive, 150A ZnS/9000A Al+Al2O3
Coating on 7940 fused silica, Delrin retainer, OCLI
Corning 7940 second surface aluminum mirror
Low scatter black glass
ZnSe crystal
ZnSe infrared plate

Metal
16 samples

Aluminized fused silica mirror
Corning 7940 second surface aluminum mirror
Gold coated copper mirror
Gold coated nickel mirror
Low scatter nickel mirror

Electronics 57 Samples

Coating
10 samples

Anodized Al plate with GaAs FETs, bulk GaAs
Anodized Al plate with MOS devices
Coated QCM- active and passive
Coated wire, MIL-W-22759/32

Glass
4 samples

Coated quartz crystal microbalance (QCM)-
active, 150A In203/9000A Al+Al2O3
Coated QCM- passive, 150A ZnS/9000A
Al+Al2O3

Metal
14 samples

Anodized Al plate with GaAs FETs, bulk GaAs
Anodized Al plate with MOS devices
Bendix JT06R plug & JT02R receptacle
mounted on Al with Ti and Ag-plated
stainless steel hardware
Coated wire, MIL-W-22759/32

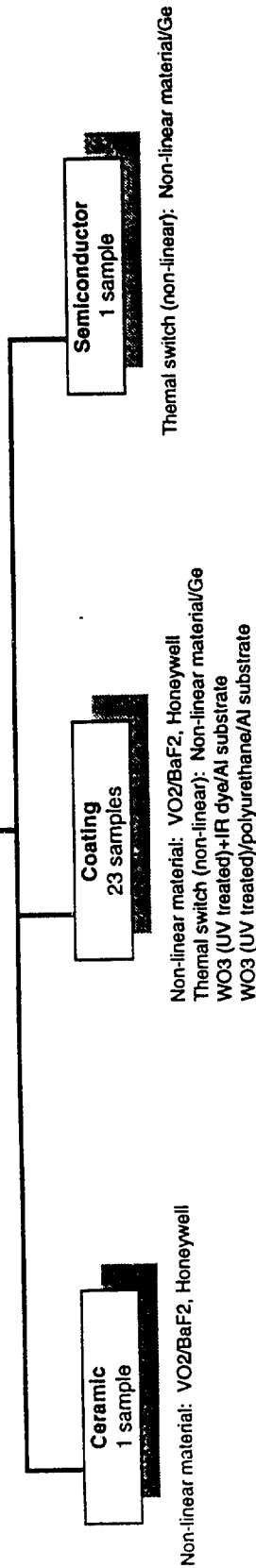
Semiconductor
43 samples

Anodized Al plate with GaAs FETs, bulk GaAs
Anodized Al plate with MOS devices
GaAs FETs, bulk GaAs
MOS devices

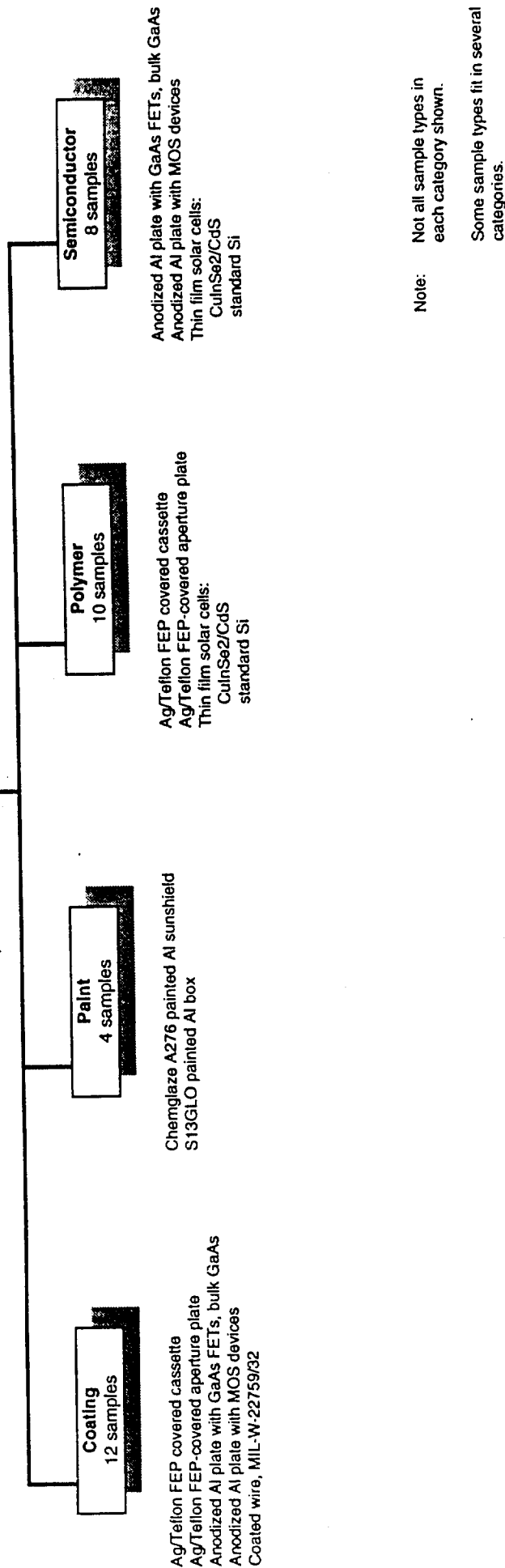
Note: Not all sample types in
each category shown.

Some sample types fit in several
categories.

Electro-Optic Signature 23 Samples



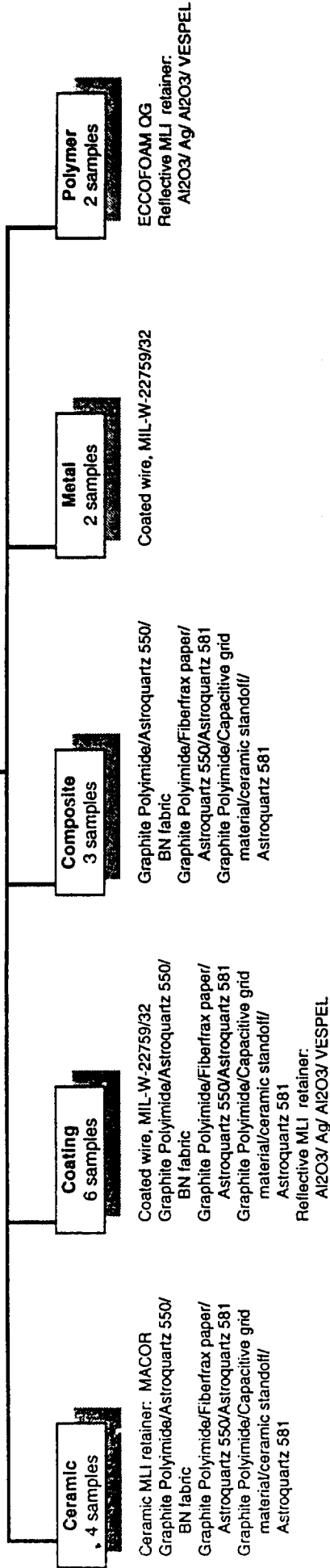
Hardware 28 Samples (all are metal)



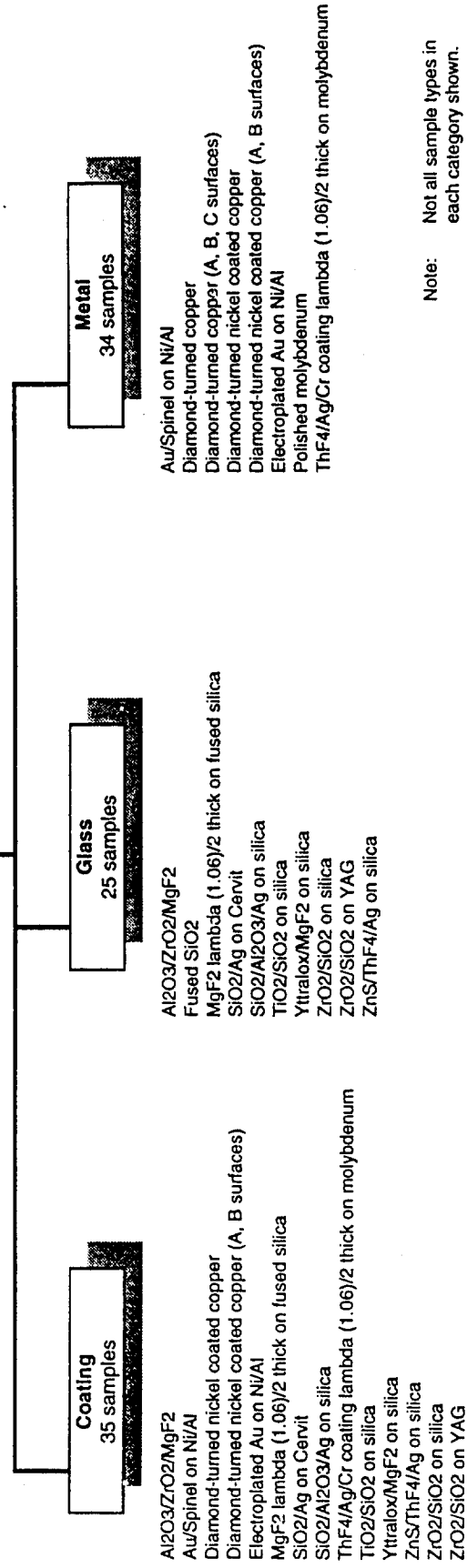
Note: Not all sample types in each category shown.

Some sample types fit in several categories.

Insulation 8 Samples



Laser Optics 59 Samples



Note: Not all sample types in each category shown.

Some sample types fit in several categories.

Optics 188 Samples

Ceramic • 1 sample

VO2/BaF2, Honeywell

Coating 138 samples

VO2/BaF2, Honeywell
Mirror, GY70201/2024 clad
Dielectric stack/Ga
Non-linear material/Ga
Dielectric stack,
Al2O3/Ag/Kapton
Dielectric stack/
SiO2/Al2O3/Ni-Au/Ba
Ag mirror on Al
Al mirror on glass
Al2O3 on SiO2
Aluminized fused silica mirror
As2Se3 on SiO2
Au mirror on Al
Coatings on 7940 fused silica,
Delrin retainer, OCLI:
Contamination
Erosion
HEA 3:1
Mark III, IIIE, IV
Reflective 350nm
Standard 350nm
Coming 7940 second surface
Al mirror
Diamond-turned nickel coated
copper (no. A, and B surfs)
Gold coated copper mirror
Gold coated nickel mirror
Au/Spinel on Ni/Al
Electroplated Au on Ni/Al
MgF2 on silica
SiO2/Ag on Cervit
SiO2/Al2O3/Ag on silica
TiO2/SiO2 on silica
Yttrium/MgF2 on silica
ZnS/ThF4/Ag on silica
ZrO2/SiO2 on silica
ZrO2/SiO2 on YAG
Al2O3 on CaF2
NaF on SiO2
OCLI SI-100
(w/ and w/o conduct. coat)
PbF2 on SiO2
ZnS/SiF2/ITO/SiO2
Sapphire/2nd surface mirror
Si on SiO2
SiOx on SiO2
Solar cell coating
Reflective 350nm coat/Ceria
Delrin retainer, OCLI
ZnS on SiO2
ThF4 on SiO2
Fused SiO2
7070 fused silica, Delrin
retainer, OCLI
7940 fused silica, Delrin
retainer, OCLI
Ceria, Delrin retainer, OCLI
Low scatter black glass
Sapphire cover slip
ZnSe Infrared plate

Composite 3 samples

Mirror, GY70201/2024 clad
Mirror, graphite/glass:
Celon 6000/borosilicate glass

Glass 122 samples

Al mirror on glass
Al2O3 on SiO2
Aluminized fused silica mirror
As2Se3 on SiO2
Coatings on 7940 fused silica,
Delrin retainer, OCLI:
Contamination
Erosion
HEA 3:1
Mark III, IIIE, IV
Reflective 350nm
Standard 350nm
Coming 7940 second surface
Al mirror
MgF2 on silica
SiO2/Ag on Cervit
SiO2/Al2O3/Ag on silica
TiO2/SiO2 on silica
Yttrium/MgF2 on silica
ZnS/ThF4/Ag on silica
ZrO2/SiO2 on silica
ZrO2/SiO2 on YAG
Al2O3 on CaF2
NaF on SiO2
OCLI SI-100
(w/ and w/o conduct. coat)
PbF2 on SiO2
ZnS/SiF2/ITO/SiO2
Sapphire/2nd surface mirror
Si on SiO2
SiOx on SiO2
Solar cell coating
Reflective 350nm coat/Ceria
Delrin retainer, OCLI
ZnS on SiO2
ThF4 on SiO2
Fused SiO2
7070 fused silica, Delrin
retainer, OCLI
7940 fused silica, Delrin
retainer, OCLI
Ceria, Delrin retainer, OCLI
Low scatter black glass
Sapphire cover slip
ZnSe Infrared plate

Metal 82 samples

Dielectric stack,
Al2O3/Ag/Kapton
Dielectric stack/
SiO2/Al2O3/Ni-Au/Ba
Ag mirror on Al
Al mirror on glass
Aluminized fused silica mirror
Au mirror on Al
Coming 7940 second surface
Al mirror
Diamond-turned nickel coated
copper (no. A, and B surfs)
Gold coated copper mirror
Gold coated nickel mirror
Au/Spinel on Ni/Al
Electroplated Au on Ni/Al
ThF4/Ag/Cr coat on MO
Ag+(Al2O3/Si)2 on pol MO
Ag+(Al2O3/Si)3 on pol Si
Ag+(ThF4/ZnS)3 on pol MO
Ag+(Al2O3/Si)4 on pol MO
Ag+(ThF4/ZnS)5 on pol MO
OCLI SI-100
(w/ and w/o conduct. coat)
Black chrome on nickel foil
Diamond-turned copper
Diamond-turned copper
(A, B, C surfaces)
Polished molybdenum
Low scatter nickel mirror

Polymer 1 sample

Flexible mirror:
Dielectric stack,
Al2O3/Ag/Kapton

Semiconductor 2 samples

Dielectric stack/Ga
Non-linear material/Ga

Note:

Not all sample types in
each category shown.

Some sample types fit in several
categories.

Radar Camouflage 8 Samples

Polymer, Coating
2 samples

Circuit analog sheet

Polymer, Metal
6 samples

Capacitive grid
Resonant reflector
Resonant window

Ceramic, metal
8 Samples

Thermoluminescent dosimeter, LiF

Radiation Dosimetry 8 Samples

Solar Power 79 Samples

Coating
51 samples

Coating on 7940 fused silica,
Delrin retainer, OCLi:
Contamination
Erosion
HEA 3:1
Mark IIIID, IIIIE, IV
Reflective, standard 350nm
Reflective 350nm coat on Ceria,
Delrin retainer, OCLi
Solar cell coatings
Soldal A, B, C, D, G, H, J, K, O, P, Q, R

Glass
63 samples

Coating on 7940 fused silica,
Delrin retainer, OCLi:
Contamination
Erosion
HEA 3:1
Mark IIIID, IIIIE, IV
Reflective, standard 350nm
Reflective 350nm coat on Ceria,
Delrin retainer, OCLi
Solar cell coatings
7070 fused silica, Delrin retainer, OCLi
7940 fused silica, Delrin retainer, OCLi
Ceria, Delrin retainer, OCLi
Conventional Si cells, 5 cell string
HESP II GaAs cells, 5 cell string
HESP II Si cells, 5 cell string
High performance Si cells, 5 cell string
Vertical junction Si cells, 5 cell string

Metal
4 samples

Thin film solar cells:
CuInSe₂/CdS
standard silicon

Polymer
16 samples

Soldal A, B, C, D, G, H, J, K, O, P, Q, R
Thin film solar cells:
CuInSe₂/CdS
standard silicon

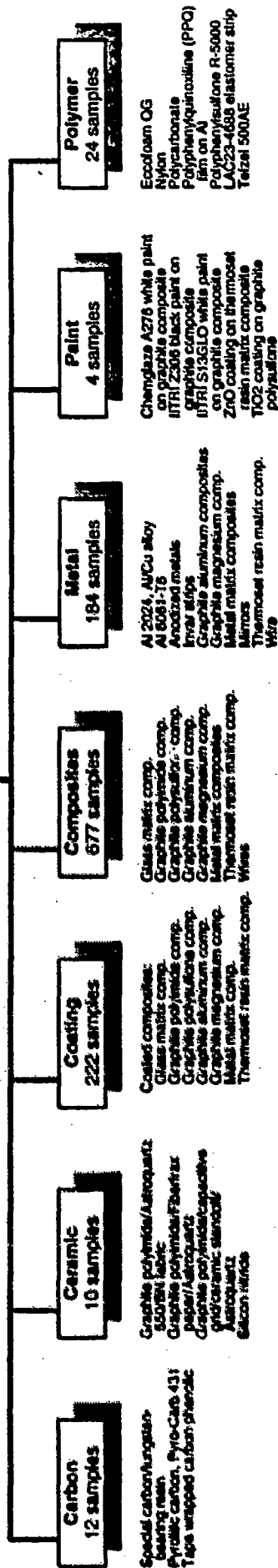
Semiconductor
16 samples

Thin film solar cells:
CuInSe₂/CdS
standard silicon
Conventional Si cells, 5 cell string
HESP II GaAs cells, 5 cell string
HESP II Si cells, 5 cell string
High performance Si cells, 5 cell string
Vertical junction Si cells, 5 cell string

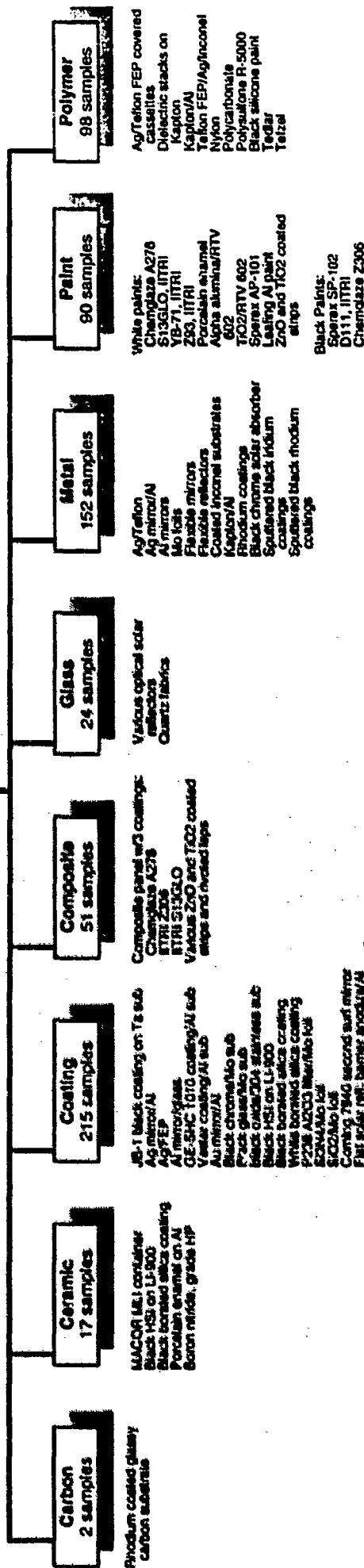
Note: Not all sample types in each category shown.

Some sample types fit in several categories.

Structures 712 Samples



Thermal Control 315 Samples



Note: Not all sample types in each category shown.

Some sample types fit in several categories.

Abstract

This guide book presents a summary of the extensive photographic and electronic observation data base compiled during the deintegration of the Aerospace Corporation M0003 Materials Experiment that was flown on the Long Duration Exposure Facility (LDEF). The Aerospace Corporation is distributing the database records and photographs generated in the postflight microscopy examination of the M0003 samples to the general community through its Library Archives. A brief description of the M0003 experiment and the deintegration effort at Aerospace Corporation is given, followed by a summary of the 20 subexperiments comprising M0003. The summary identifies the current subexperiment points of contact from the Aerospace Laboratories, DoD Laboratories, and contractor organizations.

An overview of the types of materials in the M0003 sample complement is given in the diagrams on pages 6 through 10. Examples of the over 3,000 color photographs and observation records made of the condition of the M0003 trays and individual samples during the deintegration of the experiment are shown to illustrate the types of material that can be requested from the Library Archives. Information on how to identify samples of interest and order copies of the photographs and written records of them is provided along with an order form to facilitate requests.

A separate electronic data base running on 4th Dimension, a Macintosh program, is also available to the general community. Its content is briefly described at the end of this guide book. In two tables, one providing the composition, construction and an abbreviated description of the post-flight condition of each sample, and the other giving the sample complement sorted by spacecraft application.

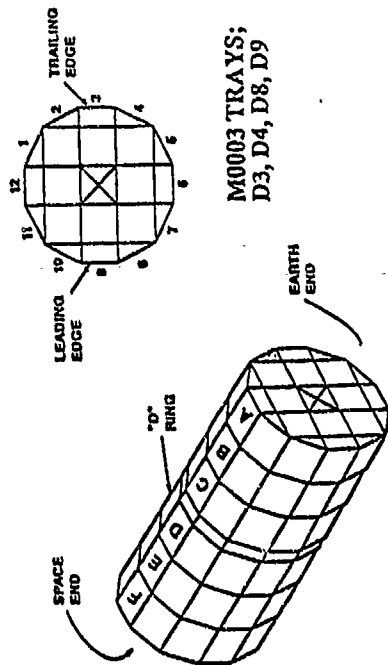
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The Long Duration Exposure Facility



LDEF Surface Nomenclature

Recently, a large collection of common spacecraft materials was retrieved after extended exposure to the space environment of Low Earth Orbit on the Long Duration Exposure Facility (LDEF). The LDEF was a 30-ft long, 14-ft diameter unmanned spacecraft that was designed to be a retrievable experiment platform. Originally deployed into orbit by the Shuttle Challenger in April of 1984 on what was to be an 11 month mission, the LDEF was not recovered until 69 months later. By the time the LDEF was captured by the Shuttle Columbia in January of 1990, the experiments had been exposed to the natural space environment longer than any previously retrieved for study. During the 69 months, materials on LDEF were subjected to roughly 11,000 hours of UV radiation, 32,422 thermal vacuum cycles (-39 °F to 134 °F), an electron dose of 2.5×10^5 Rads, a proton dose of 1.6×10^3 Rads, and thousands of micrometeoroid and space debris impacts.

The LDEF was gravity gradient-stabilized and therefore maintained a constant orientation in orbit so that only experiments on the side of the spacecraft facing into the velocity vector (leading edge) were subjected to the significant atomic oxygen dose (maximum $\sim 8.5 \times 10^{21}$ atoms/cm²) encountered at Low Earth Orbit. Experiments on the side away from the velocity vector (trailing edge) were exposed to UV-thermal vacuum cycling-space debris/ micrometeoroid conditions comparable to those experienced by all spacecraft, regardless of orbital altitude. The electron and proton doses on LDEF were lower than those experienced by satellites at geosynchronous altitudes. The space debris environment was also less severe than that faced at higher altitudes. The return of the 57 experiments on board 86 trays arrayed around the LDEF presented investigators with a unique opportunity to analyze physical samples exposed to natural space conditions.

The M0003 Experiment

One of the most comprehensive materials experiments aboard LDEF, the M0003 experiment was designed to study the effects of the space environment on current and developmental spacecraft materials. The M0003 experiment, planned and integrated by the Aerospace Corporation Mechanics and Materials Technology Center, was a collection of 20 subexperiments from the Aerospace Corporation Laboratories, Air Force and Navy Laboratories, and Department of Defense (DoD) contractors. M0003 was fielded under the sponsorship of the Air Force Space Systems Division and the Space Test Program. A summary of the M0003 subexperiments is presented in Table I.

The M0003 hardware consisted of four trays, two Experiment Power and Data Systems (EPDS), and two Environment Exposure Control Canisters (EECCs). One 6-in. deep and one 3-in. deep tray connected by a wiring harness, a tape data system, and a canister were located on Rows 8 and 9 of Ring D on LDEF's leading edge (see diagram on page 1). An almost duplicate pair of trays was located on Rows 3 and 4 of Ring D on the trailing edge.

Over 1270 material samples of more than 200 material types were mounted on modules within the trays. Many subexperiments contained duplicate sets of samples exposed on both the leading and trailing edge trays; a few subexperiments had sets in the canisters as well. The canisters were programmed to open in three stages, providing varying exposure times of 9, 19, and 40 weeks for some samples. Some subexperiments also included a set of samples that were mounted within the modules and were not directly exposed to the space environment. The samples on the trays and in the canisters included a variety of thermal control coatings, laser optics, composites, structural materials, laser communication components, dosimeters, antenna materials, contamination monitors, solar cells, fiber optics, and electronic piece parts. Preflight photos of trays were taken of the all four trays with the mounted samples and of the open canister modules.

M0003 Deintegration

The four M0003 trays were unpacked and disassembled in a class 10,000 clean room at the Aerospace Corporation. As test samples were removed from the trays, they were individually examined and photographed through high resolution optical microscopes using bright field, dark field, and Nomarski techniques. The samples experienced various space-induced damage such as crazing, surface roughening, discoloration, erosion, contamination staining, and hypervelocity impact crater formation. Observations of the effects seen were recorded by a single examiner who maintained a consistent criteria for the qualitative descriptions of the condition of all M0003 samples and hardware. It should be noted that the in-depth investigation of the effects of the space exposure on the samples was the prerogative of the subexperimenters, and was not a deintegration task.

Over 3,000 macrographs and photomicrographs were made to document the effects observed on the M0003 trays and the individual samples. Overall photographs of the trays, modules, and quarter-modules, (front and back) were shot in large format print film in color and in black and white. In addition, side by side photographs of leading and trailing edge module components were made to compare, visually, differences in contamination staining, erosion, discoloration, etc. The photomicrographs were made using high resolution 35 mm color print film. The photomicrographs, taken at magnifications from 3X to 1000X, show the postflight surface morphology of the material samples. During the deintegration process, a relational computer data base was used to collect the observation records of the condition of the samples and flight hardware, the records linking the photographs to the samples, the point of contact for each subexperiment, and a list of postflight publications. Aerospace Corporation is distributing the database observation records and photographs to the general community. Information on how to access and receive copies of the photographs and written records on materials of interest from the database will be given in this guide.

TABLE I. SUMMARY OF M0003 EXPERIMENTS

Subexperiment Number	Scope	Subexperiment Point of Contact	Organization/ Address
-1	Radar camouflage materials and electro-optical signature coatings	Charles Hurley	Univ. of Dayton Research Inst. 300 College Park Dayton, OH 45469-0001
-2	Laser optics	Linda De Hainaut	Phillips Lab/LIDA Kirtland AFB, NM 87117-6008
-3	Structural materials	Charles Miglionico	Phillips Lab/PL/VTSI Kirtland AFB, NM 87117-6008
-4	Solar power components	Terry Trumble	Wright Labs/POOC Wright Patterson AFB, OH 45433-6533
-5	Thermal control materials	Charles Hurley	Univ. of Dayton Research Inst. 300 College Park Dayton, OH 45469-0001
-6	Laser communication components	Randall R. Hodgson	McDonnell Douglas Astronautics Corp. Mail Code 1067267 P. O. Box 516 St. Louis, MO 63166
-7	Laser mirror coatings	Terry M. Donovan	3481 Murdoch Dr. Palo Alto, CA 94306
-8	Composite materials, electronic piece parts, fiber optics	Gary Pippin	Boeing Aerospace Co. Materials Technology Dept., MS 2E-01 P. O. Box 3999 Seattle, WA 98124
-9	Thermal control materials, antenna materials, composite materials, and cold welding	Brian C. Petrie	Lockheed Missiles & Space Co. Dept. 62-92, Bldg. 564 P. O. Box J04 Sunnyvale, CA 94086
-10	Advanced composite materials	Gary L. Steckel	The Aerospace Corp. P. O. Box 92957, M2/242 Los Angeles, CA 90009

TABLE I. (cont.) SUMMARY OF M0003 EXPERIMENTS

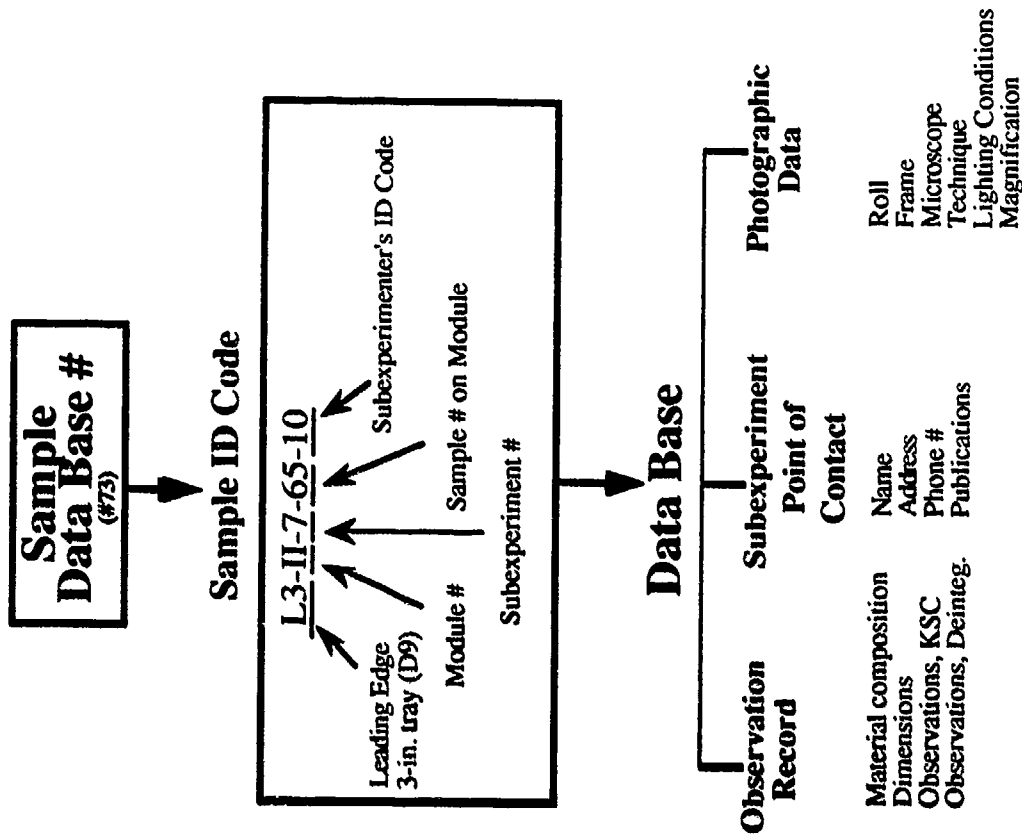
Subexperiment Number	Scope	Subexperiment Point of Contact	Organization/ Address
-11, -12	Contamination monitoring Radiation measurements	Eugene N. Borson F. Barry Sinsheimer	The Aerospace Corp. P. O. Box 92957, M2/272 Los Angeles, CA 90009
-13	Laser hardened materials	Randall R. Hodgson	McDonnell Douglas Astronautics Corp. Mail Code 1067267 P. O. Box 516 St. Louis, MO 63166
-14	Quartz crystal microbalance	Donald A. Wallace	QCM Research 2825 Laguna Canyon Road P. O. Box 277 Laguna Beach, CA 92652
-15	Thermal control materials	Oscar Esquivel	The Aerospace Corp. P. O. Box 92957, M2/241 Los Angeles, CA 90009
-16	Advanced composites	Gary L. Steckel	The Aerospace Corp. P. O. Box 92957, M2/242 Los Angeles, CA 90009
-17	Radiation dosimetry	Sam S. Imanoto, J. Bernard Blake	The Aerospace Corp. P. O. Box 92957, M2/260 Los Angeles, CA 90009
-18	Thermal control paints	Christopher H. Jagers	The Aerospace Corp. P. O. Box 92957, M2/272 Los Angeles, CA 90009
-19	Electronic Piece Parts	Seymour Feuerstein	The Aerospace Corp. P. O. Box 92957, M2/244 Los Angeles, CA 90009
-20	Tray Hardware	Michael J. Meshishnek	The Aerospace Corp. P. O. Box 92957, M2/241 Los Angeles, CA 90009

V. The M0003 Data Base

The data base contains observation records for all samples on the four M0003 trays that could be examined, including thermal control surfaces that were part of the tray hardware. Each sample has a Sample ID that encodes its location on the M0003 trays and the subexperimenter ID. In addition, each was assigned a simple, unique Data Base Number that links the sample to the observation records and all photographs made during the microscopy examination. The photographic conditions, including the microscopy technique used, the illumination, and the magnification of the photograph are part of the data base. Negatives of the photographs were archived and will be used for fulfilling requests for color prints of samples of interest.

The following pages present diagrams of five groupings of the M0003 sample complement that comprise a major part of the data base contents. The complete list of the individual M0003 samples is in the appended Sample List and the subsequent "Sort by Application" of the data base contents at the end of this guide. On the following pages an observation record example and associated color photograph examples are presented. The photographic examples begin with an overall view of one of the leading edge trays, D9. This is followed by macrographs and micrographs of one sample on the tray, DB#73 (L3II-7-65-10), and the module on which DB#73 was mounted.

The observation records and photographs desired can be requested by using the Aerospace Order Form 5365, included with this guide.



Optics

192 Samples
(74 Leading Edge, 118 Trailing Edge)

Substrates

46 Samples
(19 LE, 27 TE)

SiO2
Mo
Cu
Sapphire
Au/Cu
ZnSe
Black Glass
7940 SiO2

Mirrors

78 Samples
(37 LE, 41 TE)

ThF4/Ag on Mo
Al2O3/Si/Ag on Mo
(Al2O3/ZnS)x9/ Al on Mo
ThF4/ZnS on SiO2
Black Glass
Ir on C
Al on SiO2
Rh on C
Ag
Au
Ni
OSRs

Coatings

125 Samples
(49 LE, 76 TE)

MgF2 on SiO2
ThF4 on SiO2
SiOx/ Si on SiO2
NaF on SiO2
As2Se3 on SiO2
PbF2 on SiO2
Ni on Cu
ZnS/ ThF4
TiO2/ SiO2 on SiO2
Al2O3 on CaF2

Note: Not all sample types in each category shown
Some sample types fit in several categories
Totals are for entire data base

Structures
715 Samples
 (353 Leading Edge, 362 Trailing Edge)



Ceramics
8 Samples
 (5 LE, 3 TE)

- Si₃N₄
- ZrO₂ Foam
- Macor

Composites
682 Samples
 (341 LE, 341 TE)

- Metal Matrix (146 LE, 145 TE)
- Glass Matrix
- Thermoplastic Resin Matrix (48 LE, 45 TE)
- Polysulfone
- Polyethersulfone
- Thermoset Resin Matrix (138 LE, 143 TE)
- Epoxy
- Polyimide
- Polyarylacetylene
- Phenolic

Metals
309 Samples
 (155 LE, 154 TE)

- Al (6061-T6)
- Al (2024)
- Ni
- Cu
- Mo
- Mg
- Ti + B Alloy
- Invar

Carbon-Carbon (2 LE, 2 TE)
Wires (57 LE, 57 TE)

Note: Not all sample types in each category shown
 Some sample types fit in several categories
 Totals are for entire data base

Thermal Control **319 Samples** (159 Leading Edge, 160 Trailing Edge)

Reflectors	White Paints	Black Paints	Coatings	Metallized Polymers
21 Samples (12 LE, 9 TE)	107 Samples (55 LE, 52 TE)	18 Samples (10 LE, 8 TE)	117 Samples (56 LE, 61 TE)	57 Samples (29 LE, 28 TE)
Au/SiO ₂ Ag/SiO ₂ Au/SiO ₂ Anodized Al OSRs	Chemglaze A276 Z93 YB-71 S13GLO NS 43G MM/GSFC Sperex AP101 DC92-007 NASA/ Rockwell Alpha Al ₂ O ₃ Methyl Silicone Misc. Developmental Paints	Chemglaze Z306 D-111 Sperex SP-102 JB-1	Oxide/ Mo Anodized Al Black RTV 602 Spraylon 7075 Black Chrome FEP/ Quartz Fabric Misc. Ceramic Coatings	Ag/FEP Al/Kapton ITO-coated Al/Kapton Ag/FEP

Note: Not all sample types in each category shown
 Some sample types fit in several categories
 Totals are for entire data base

Polymers
137 Samples
(66 Leading Edge, 71 Trailing Edge)

Sheets
68 Samples
(36 LE, 32 TE)

Adhesives
67 Samples
(33 LE, 34 TE)

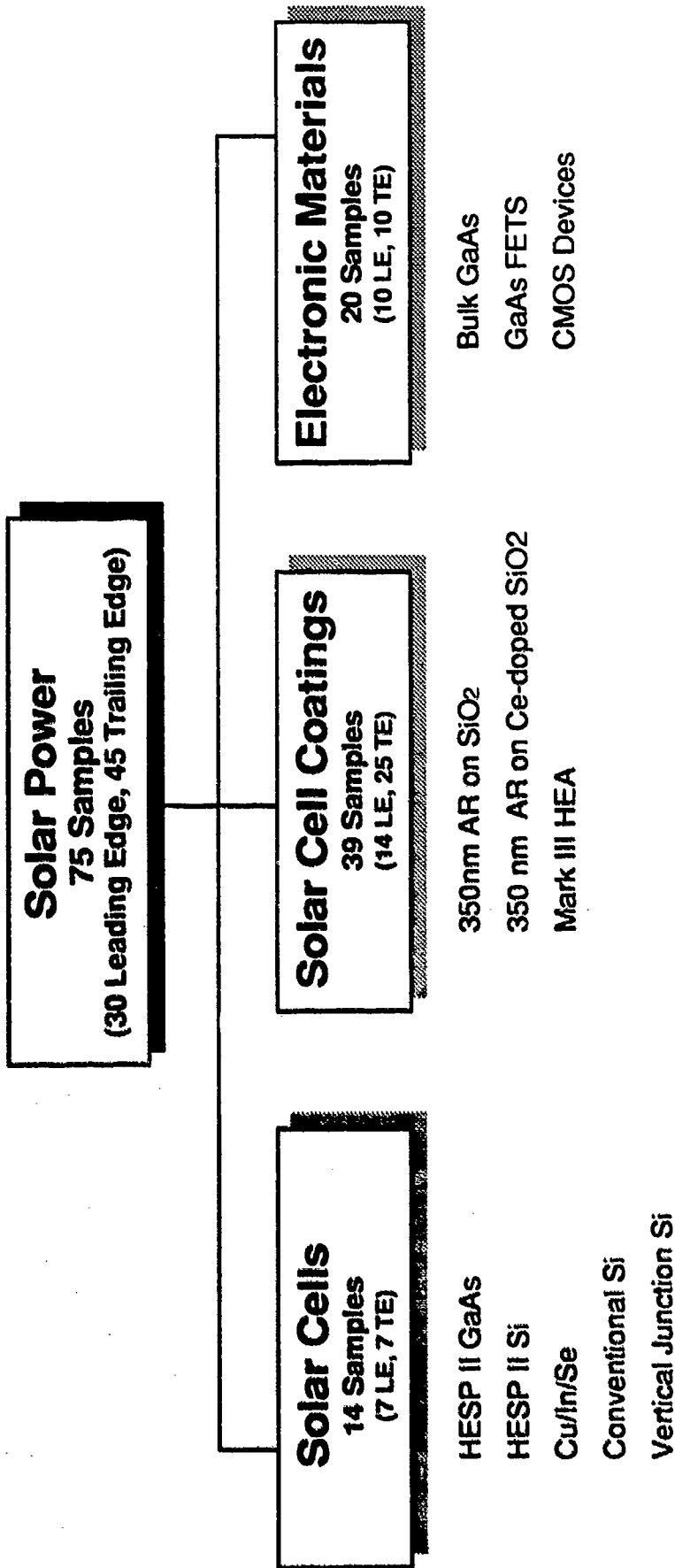
Bulk
41 Samples
(16 LE, 25 TE)

Kapton
Teflon
Polysulphone
Tefzel
Polycarbonate
Nylon
Polysulfone
PPQ

Y966
EC-52
NATOIII-C
RTV-502
RTV-560
DC 93-500

Delrin

Note: Not all sample types in each category shown
Some sample types fit in several categories
Totals are for entire data base



Note: Not all sample types in each category shown
Some sample types fit in several categories
Totals are for entire data base

Data Base Record and Photo Examples

LDEF M0003 Sample Observation

Sample ID: L3II-7-65-10

Database #: 73

Tray: D9

Module: II

Experiment #: 7

Description: Coating, ZnS on SiO₂
coating)

(SiO₂ substrate, ZnS

Width: 0.375

Length: -

Thickness: 0.100

Exposure: 69 months

Post-flight Condition:

Buckled (+), delaminated

Category: Coating, glass

Subcategory: Coated substrate

Application: Optics

Observations at KSC Before Deintegration:

SURFACE CRAKED, FLAKING

Observations at The Aerospace Corporation:

Date: Tuesday, May 15, 1990

The exposed coating appears uniformly buckled; some areas have buckled so severely that the coating has flaked. In the flaked areas, the residual surface (the substrate) is smooth. Another phase appears to have nucleated on the top of the buckled surface. This phase is manifested, in various stages of formation, as crescent-, ring- or circular-shaped features on the surface.

Point of Contact:

Terry Donovan

3481 Murdoch Dr.

Stanford
(000) 000-0000

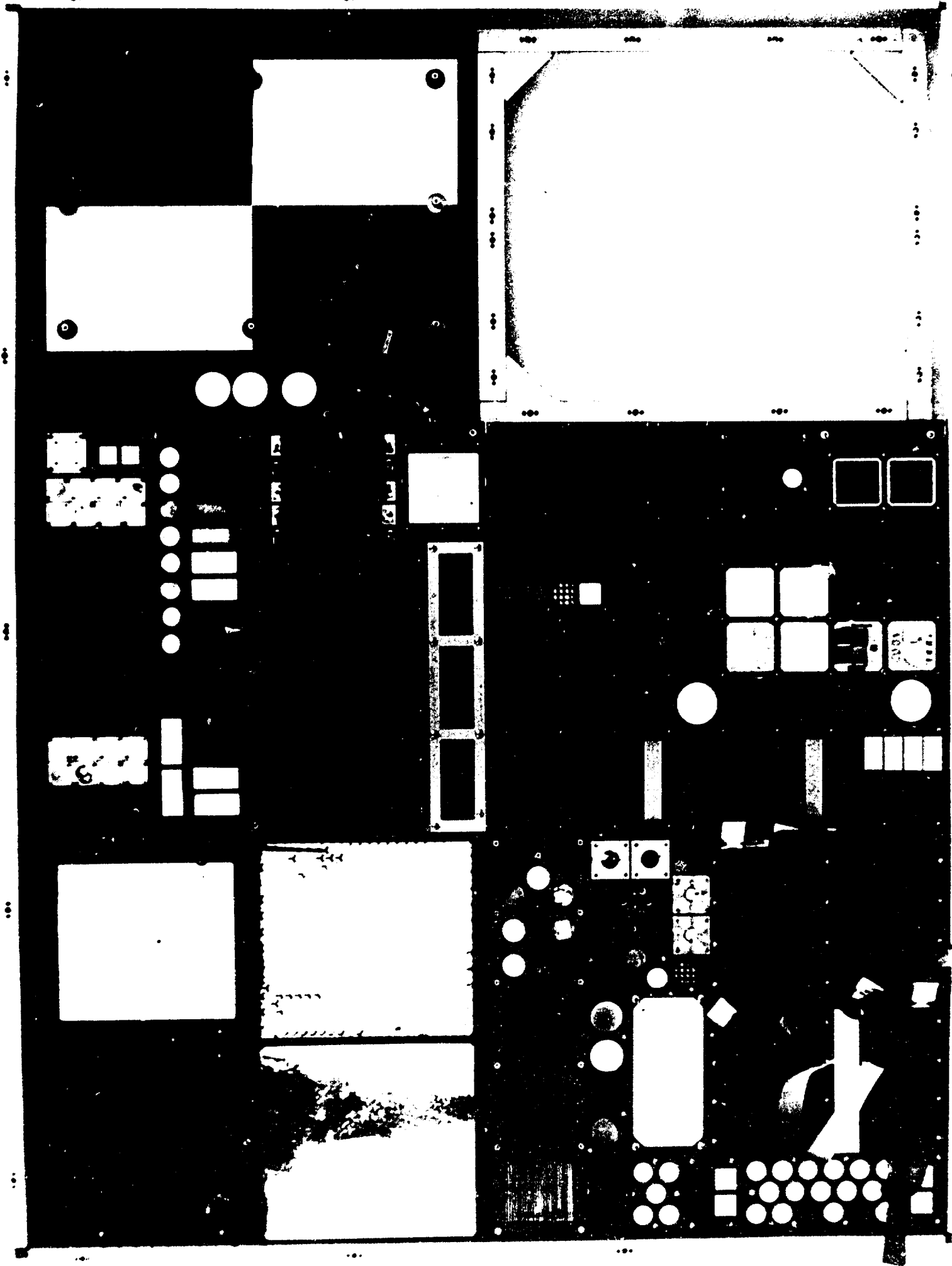
CA 94306
FAX: () 000-0000

Publications:

1. T. M. Donovan, J. M. Bennett, and S. Gyetvay, "Space Environmental Effects on Coated Optics," Proceedings of the First Post-Retrieval Symposium, Kissimmee, FL, June 2-8, 1991, NASA Conference Publication 3134, Part 3

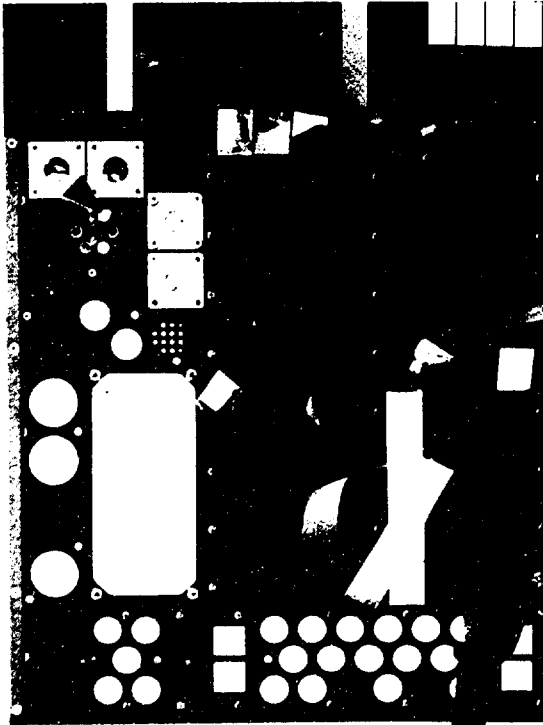
Mechanics and Materials Technology Center
THE AEROSPACE CORPORATION



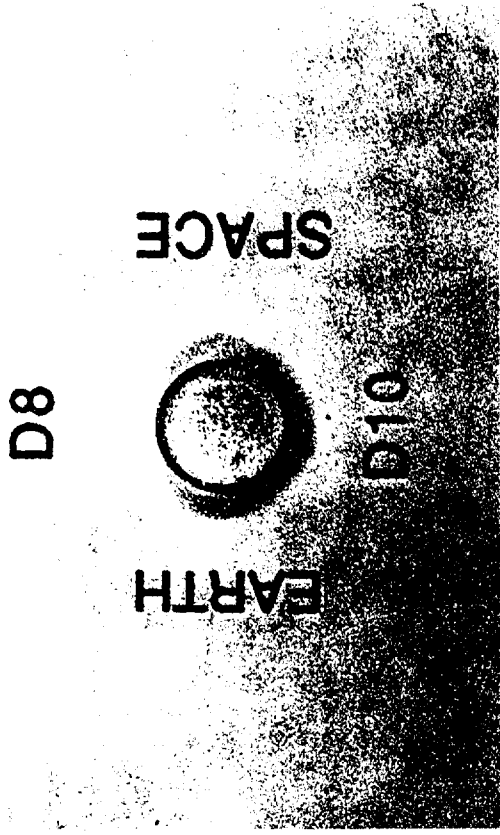


244 HERSCHEL COFF 1724

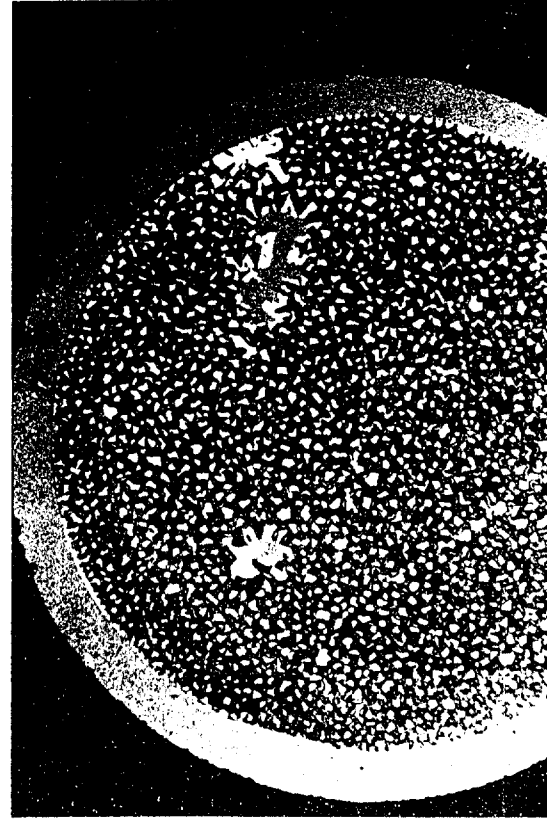
92-05-27 03-05



Module Macro photograph - Module II on Tray D9
(Arrow points to sample DB#73)



Sample Macro photograph - DB# 73
(L3II-7-65-10, ZnS coating on fused silica, .375" dia.)



Higher magnification view of DB#73
Buckled coating on surface



Annular features on buckled coating
on surface of DB# 73

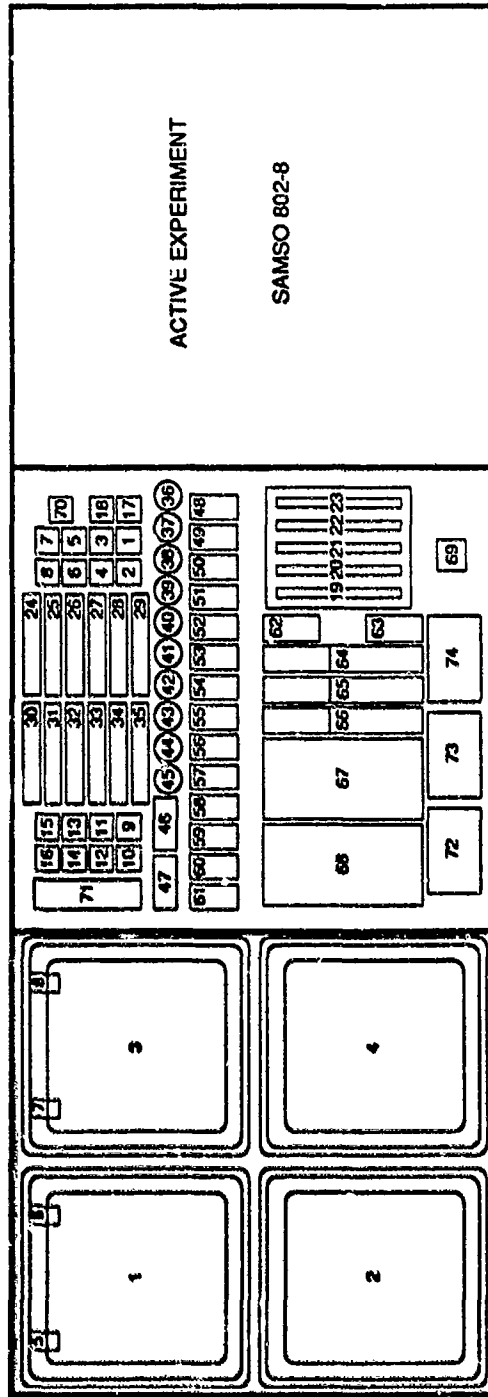
IX. Sample Photograph Examples

M0003 Tray Diagrams

LEADING EDGE 3-INCH TRAY D9-L3

I	IV	V
II	III	VI

D8 (side adjacent to D8)



EARTH (side nearest Earth)

SPACE (side farthest from Earth)

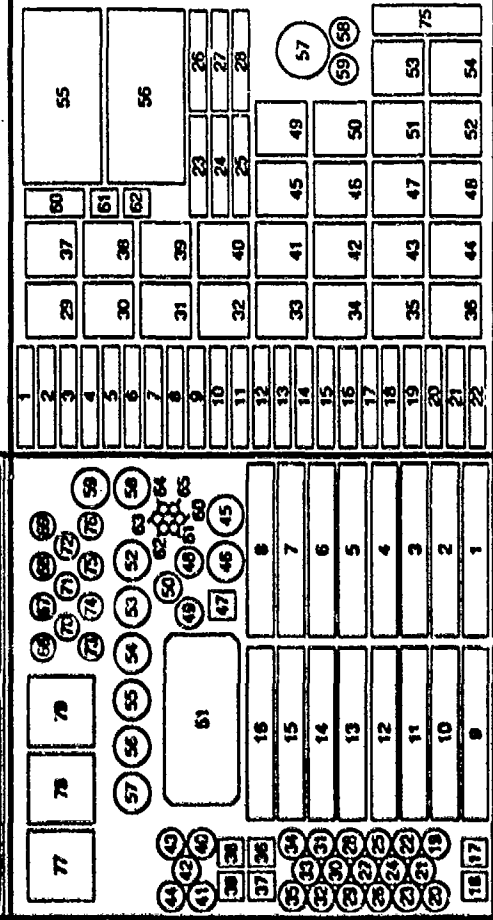
ACTIVE EXPERIMENT

SAMSO 802-8

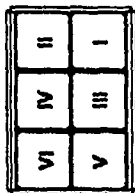
AF GEOPHYSICS LAB
PASSIVE COSMIC RAY DETECTOR

AF NO# CRL-258
NASA NO# M0002

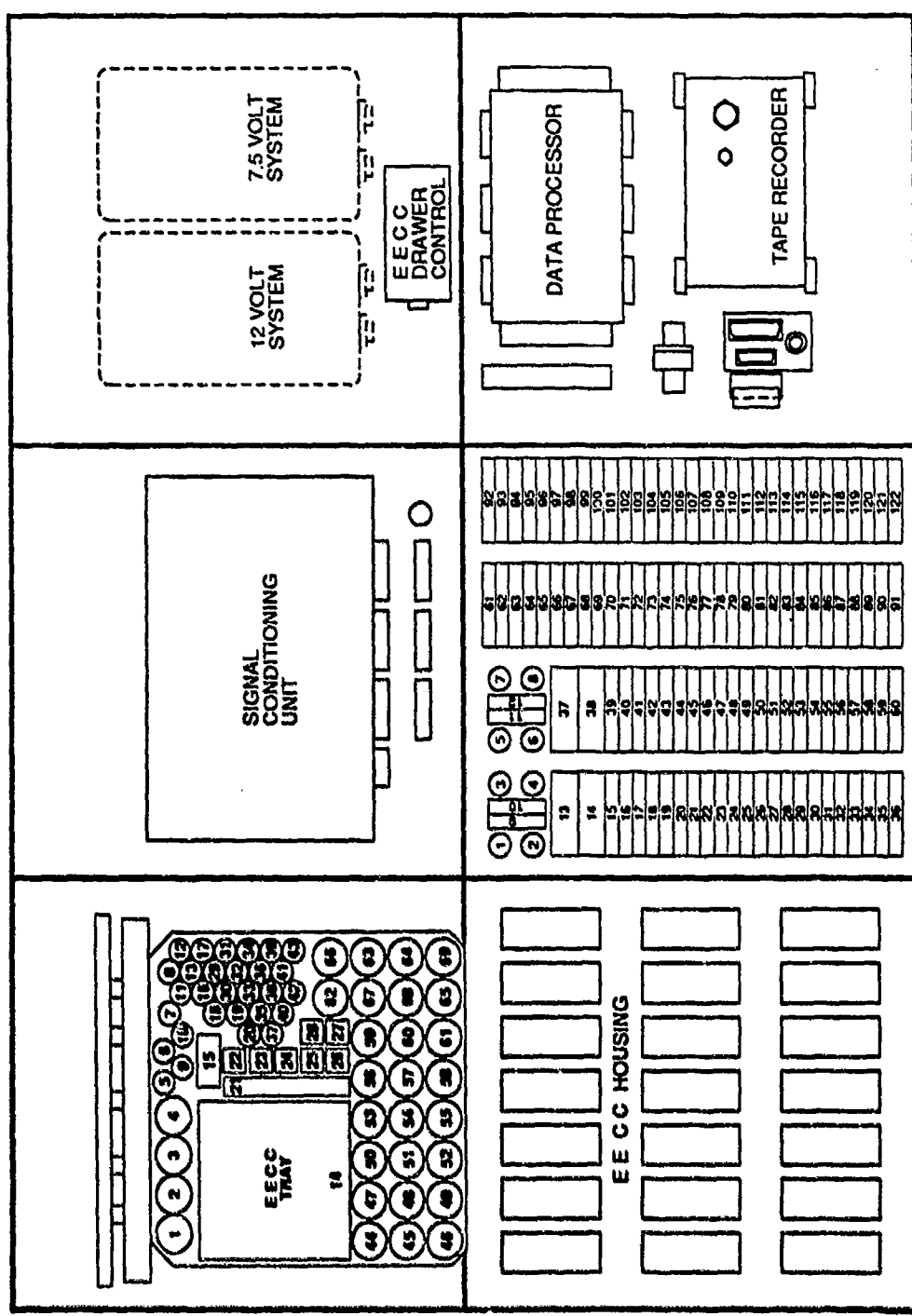
D10 (side adjacent to D10)



LEADING EDGE 6-INCH TRAY D8-L6



D7 (side adjacent to D7)



EARTH (side nearest Earth)

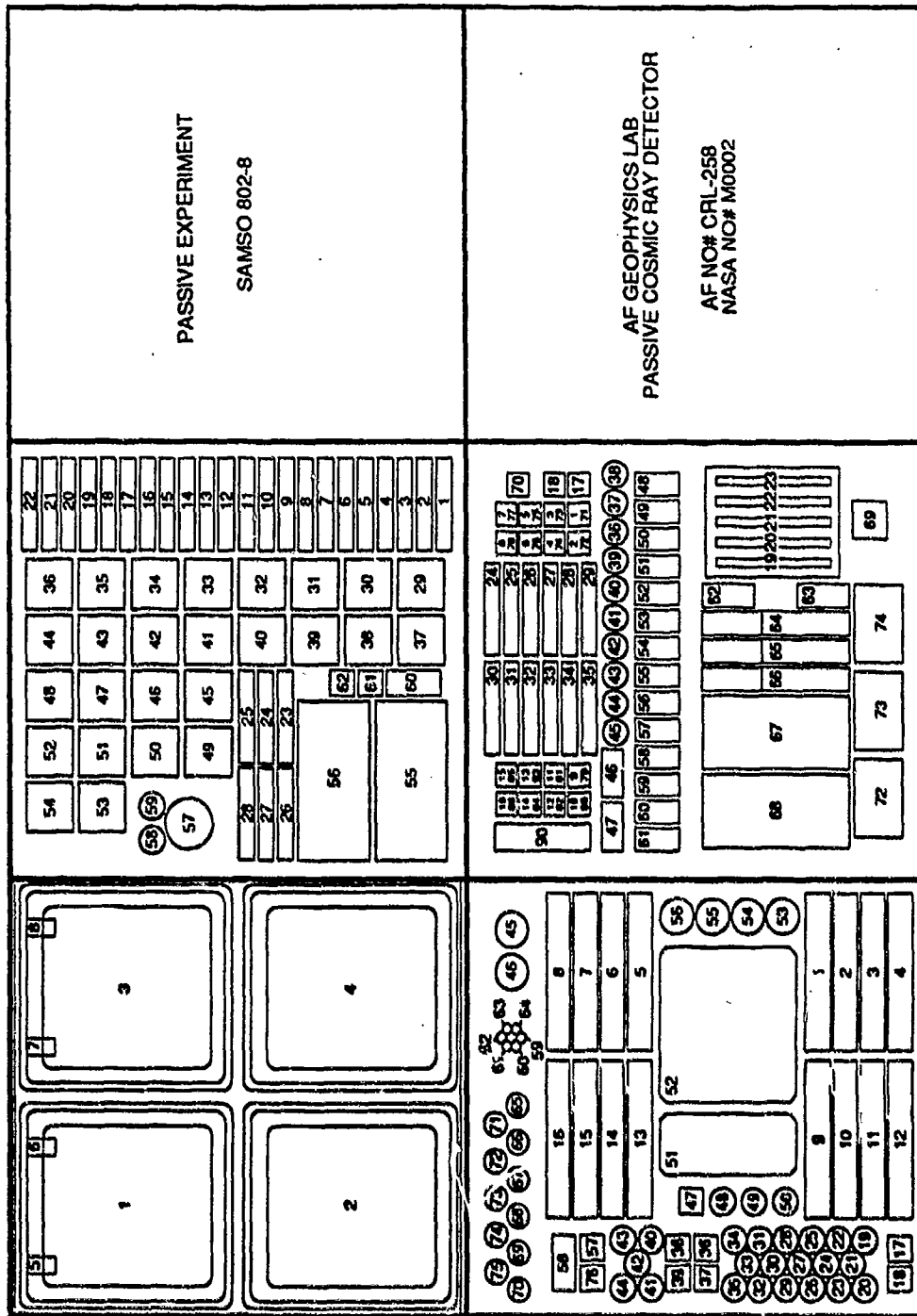
SPACE (side farthest from Earth)

D9 (side adjacent to D9)

TRAILING EDGE 3-INCH TRAY D3-T3

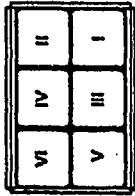
I	III	V
II	IV	VI

D2 (side adjacent to D2)

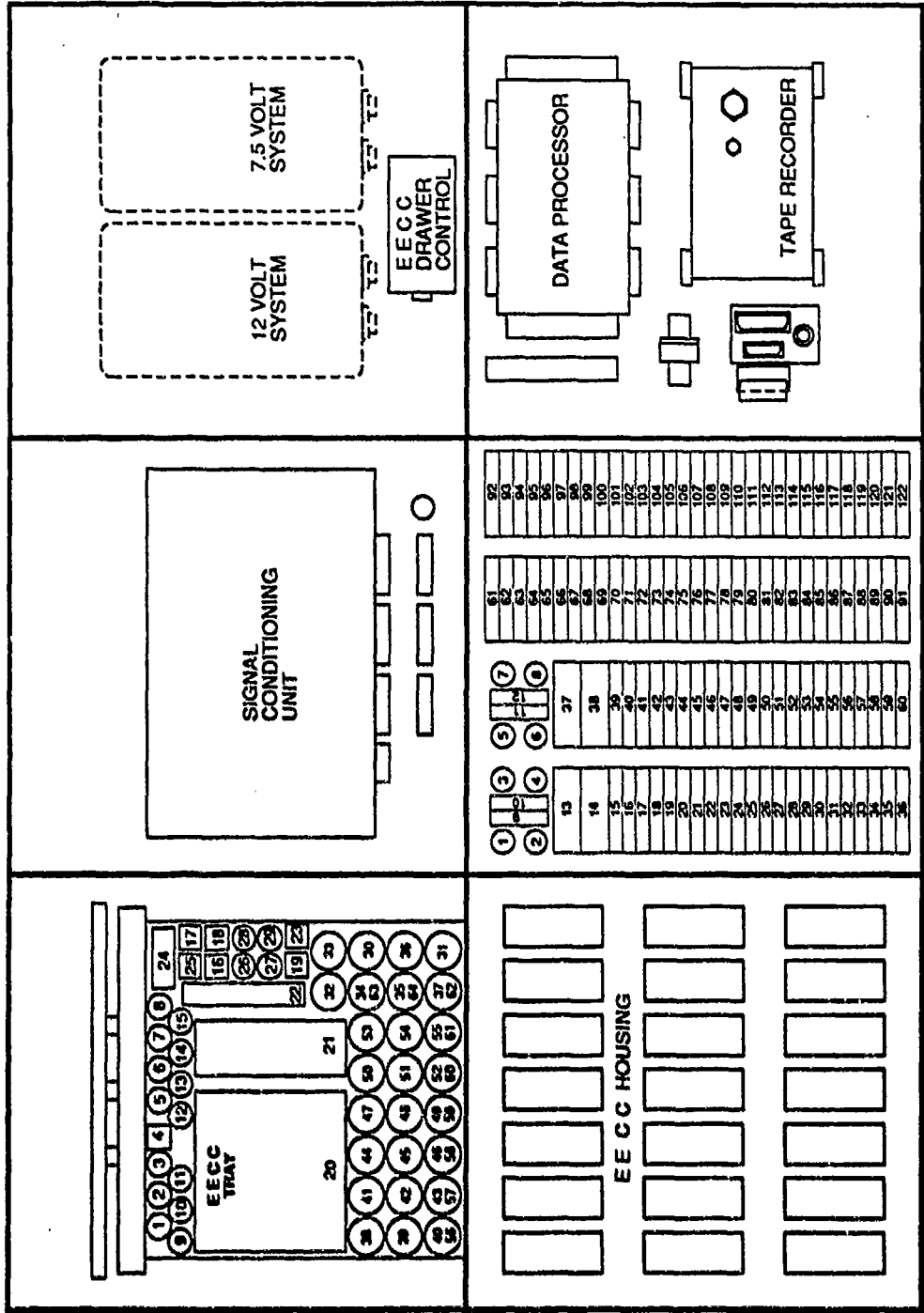


D4 (side adjacent to D4)

TRAILING EDGE 6-INCH TRAY D4-T6



D3 (side adjacent to D3)



D5 (side adjacent to D5)

EARTH (side nearest Earth)

M0003 Data Base Contents List

DB#	Sample ID	Description	Post-Flight Condition
1	L31-1-1-C	Resonant reflector	Eroded (+), cratered
2	L31-1-2-D	Circuit analog sheet	Discolored (+), cratered
3	L31-1-3-A	Capacitive grid	Eroded (+), cratered
4	L31-1-4-B	Resonant window	Eroded (+), cratered
5	L31-9-5-CW1	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
6	L31-9-6-CW2	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
7	L31-9-7-CW3	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
8	L31-9-8-CW4	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
9	L311-5-1-C1	Tellon FEP/Ag/Inconel, 2 mil, Sheldahl	Embrittled, eroded, cratered, cratered
10	L311-5-2-C2	Tellon FEP/Ag/Inconel, 5 mil, Sheldahl	Embrittled, eroded, cratered, flaked
11	L311-5-3-C3	Kapton/Al, 1 mil, Sheldahl	Eroded, cratered
12	L311-5-4-C4	Kapton/Al, 5 mil, Sheldahl	Eroded, cratered
13	L311-5-5-C5	Tellon FEP type A, 5 mil	Eroded, embrittled
14	L311-5-6-C6	Tellon FEP/Ag/Inconel (5 mil)/Eccobond 57C/Kapton (5 mil)	Eroded, cratered, flaked
15	L311-5-7-C7	Tellon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Eroded, cratered, flaked
16	L311-5-8-C8	Tellon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Eroded, cratered, flaked
17	L311-5-9-C9	Tellon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Eroded, cratered, flaked
18	L311-5-10-C10	Tellon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Eroded, cratered, flaked
19	L311-5-11-C11	Tellon FEP/Ag/Inconel (5 mil)/Y966/Kapton (5 mil)	Eroded, cratered, flaked
20	L311-5-12-C12	Tellon FEP/Ag/Inconel (5 mil)/NATO IIC/Kapton, 8.5 mil	Eroded, contaminated (particle), cratered
21	L311-5-13-C13	Nylon 6/6, 5 mil	Eroded
22	L311-5-14-C14	Telzel 500AE, 5 mil	Eroded, embrittled
23	L311-5-15-C15	Polycarbonate, 5 mil	Eroded, embrittled, cratered
24	L311-5-16-C16	Polyphenylsulfone R-5000, 10 mil, Union Carbide	Eroded, embrittled, contaminated (stain), cratered
25	L311-5-17-B1	Optical Solar Reflector, OCLI SI-100	Corroded, contaminated (particle)
26	L311-5-18-B2	Optical Solar Reflector, OCLI SI-100 with conductive coating	Hazed, corroded, cratered
27	L311-5-19-A1	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al General Electric	Unchanged
28	L311-5-20-A2	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	Eroded
29	L311-5-21-A3	Porcelain enamel on Al, NASA Marshall Space Flight Center	Discolored (-)
30	L311-5-22-A4	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	Textured
31	L311-5-23-A5	Black paint, D111, IITRI	Cratered, contaminated (particle)
32	L311-5-24-A6	7 µm quartz fabric chemical and heat cleaned (+ 450 °C), adhesive bond/Al, General Electric	Unchanged
33	L311-5-25-A7	Tellon FEP/Ag/Inconel, 2 mil, Sheldahl	Eroded (+)
34	L311-5-26-A8	Tellon FEP/Ag/Inconel, 5 mil, Sheldahl	Eroded
35	L311-5-27-A9	In2O3/Tellon FEP/Ag/Inconel, 5 mil, General Electric	Microfractured
36	L311-5-28-A10	Kapton/Al, 1 mil, Sheldahl	Eroded
37	L311-5-29-A11	Kapton/Al, 5 mil, Sheldahl	Eroded
38	L311-5-30-A12	In2O3/Kapton/Al, 5 mil, General Electric	Unchanged
39	L311-5-31-A13	White paint, Z93, IITRI	Cratered
40	L311-5-32-A14	White paint, S13GLO, IITRI	Discolored (-)

DB#	Sample ID	Description	Post-Flight Condition
41	L311-5-33-A15	White paint, YB-71, IITRI	Crazed, whiskered
42	L311-5-34-A16	White paint, NS 43G, NASA Goddard Space Flight Center	Discolored (-), crazed
43	L311-5-35-A17	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	Unchanged
44	L311-5-36-B3	Au mirror/Al	Unchanged
45	L311-5-37-B4	Al mirror/glass	Buckled, flaked
46	L311-5-38-B5	Ag mirror/Al	Corroded (+)
47	L311-5-39-B6	Ag mirror/Al	Corroded (+), crazed
48	L311-5-40-A18	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+)
49	L311-5-41-A19	White paint, PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	Unchanged
50	L311-5-42-A20	White paint: TiO2/RTV 602, ML101, Air Force Materials Laboratory	Discolored, crazed
51	L311-5-43-A21	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	Discolored (+), crazed
52	L311-5-44-A22	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	Discolored (+), crazed
53	L311-14-45-12	Coated quartz crystal microbalance (QCM) - active, 150A In2O3/9000A Al+Al2O3	Hazed, crazed
54	L311-14-46-6	Coated quartz crystal microbalance (QCM) - passive, 150A ZnS/9000A Al+Al2O3	Hazed, cracked, crazed
55	L311-12-47-1	Thermoluminescent dosimeter, LiF	Cratered
56	L311-11-48-BG01	Low scatter black glass	Discolored, hazed, cratered
57	L311-11-49-S07	Aluminized fused silica mirror	Contaminated (particle), cratered
58	L311-11-50-N01	Low scatter nickel mirror	Hazed, corroded
59	L311-6-51-V	Ag/Teflon FEP covered cassette holding 9 laser communication detectors	Cover: eroded, distorted, cratered
60	L311-2-52-006	Fused SiO2	Cratered
61	L311-2-53-010	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed (+), cratered
62	L311-2-54-N18A	Polished molybdenum	Oxidized (+), hazed, cratered
63	L311-2-55-N24B	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Blistered, flaked, cratered
64	L311-2-56-8688	Diamond-turned copper	Oxidized (+)
65	L311-2-57-10	Diamond-turned nickel coated copper	Corroded, hazed
66	L311-4-58-SC1	Solar cell coating	Microfractured, cratered
67	L311-4-59-SC2	Solar cell coating	Cracked, cratered
68	L311-7-60-1	Al2O3 coating on SiO2 substrate	Microfractured (-), wrinkled, cratered
69	L311-7-61-3	Si coating on SiO2 substrate	Microfractured (-), cratered
70	L311-7-62-5	NaF coating on SiO2 substrate	Microfractured (+), cratered
71	L311-7-63-6	ThF4 coating on SiO2 substrate	Microfractured (+), cratered
72	L311-7-64-9	SiOx coating on SiO2 substrate	Microfractured (+), cratered
73	L311-7-65-10	ZnS coating on SiO2 substrate	Microfractured (-), cratered
74	L311-15-66-A1	Rhodium foil bonded with DC 6-1104 to aluminum substrate	Buckled (+), delaminated
75	L311-15-67-B1	Iridium foil bonded with DC 6-1104 to aluminum substrate	Hazed, contaminated (particle)
76	L311-15-68-C1	Polished molybdenum mirror	Contaminated (particle)
77	L311-15-69-D1	Sputtered black rhodium coating on polished molybdenum substrate	Discolored, contaminated (stain, particle)
78	L311-15-70-E1	Sputtered black iridium coating on polished molybdenum substrate	Cratered
79	L311-15-71-F1	Black chrome coating on molybdenum substrate	Crazed, flaked, cratered
80	L311-18-72-G1	White thermal control paint, YB-71/Al, IITRI	Cracked, flaked

DB#	Sample ID	Description	Post-Flight Condition
81	L3111-18-73-H1	Black thermal control paint, D111/Al, IITRI	Bleached, crazed, flaked, cratered
82	L3111-18-74-1	ZnSe crystal	Discolored, cratered, contaminated (particle)
83	L3111-18-75-J	Polyphenylquinoxaline (PPQ) film on Al	Eroded
84	L3111-15-76-K	Sputtered black rhodium coating on molybdenum substrate	Crazed, flaked, contaminated (stain), cratered
85	L3111-15-77-L1	Sputtered black chrome coating on molybdenum substrate	Oxidized, flaked, cratered
86	L3111-15-78-M1	Black glass coating on molybdenum substrate	Oxidized, flaked, cratered
87	L3111-15-79-N1	Sputtered black chrome coating on molybdenum substrate	Oxidized, flaked
88	L3111-9-1-CM2b	GY70/CE-399, (0/(90)2/0)4T, 250 °F	Eroded
89	L3111-9-2-CM4a	GY70/CE 339, ((0)2/(90)2)T, 250°F	Eroded
90	L3111-9-3-CM6b	T50/F263 (0/(90)2/0)4T, 350°F	Eroded, cratered
91	L3111-9-4-CM8a	T50/F263 ((0)2/(90)2)T, 350°F	Eroded, cratered
92	L3111-9-5-CM10c	T-50 (PAN)/X904B-10(90)2/0)4T, 350°F	Eroded, contaminated (stain)
93	L3111-9-6-CM14a	T-50 (PAN)/X904B-10(90)2/0)4T, 350°F	Eroded, cratered
94	L3111-9-7-CM18a	T-50(PAN)/E788(O/(90)2/O)4T, 350°F	Eroded
95	L3111-9-8-CM42b	Kevlar/epoxy K49 fabric/X904B ((0)2/(90)2)T, 350°F	Eroded
96	L3111-9-9-CM44a	T-50/F263 (0/(90)2/0)4T, 300°F	Eroded, cratered
97	L3111-9-10-CM30b	Celion 6000/E788(0/(90)2/0)4T, 350°F	Eroded, cratered
98	L3111-9-11-CM3a	GY70/CE-399 (+45/(-45)2/+45)4T, 250°F	Eroded, cratered
99	L3111-9-12-CM7a	T50/F263 (+45/(-45)2/+45)4T	Eroded
100	L3111-9-13-CM11c	T-50 (PAN)/934/+45/(-45)2/+45)4T, 350°F	Eroded
101	L3111-9-14-CM15d	T-50(PAN)/X904B-10(+45/(-45)2/+45)4T, 350°F	Eroded, cratered
102	L3111-9-15-CM19a	T-50(PAN)/E788(+45/(-45)2/+45)4T, 350°F	Eroded, contaminated (particle)
103	L3111-9-16-CM38c	KEVLAR/epoxy 49 fabric/X904B (±45)4S, 350°F	Eroded, contaminated (particle), cratered
104	L3111-9-17-CM45d	T-50/F263 (+45/(-45)2/+45)4T, 300°F	Eroded
105	L3111-9-18-CM31d	Celion 6000/E788(+45/(-45)2/+45)4T, 350°F	Eroded, cratered
106	L3111-9-19-AB1-2	HMF 330C/934-2024-HMF 300C/934 (9628), 250°F	Eroded, cratered
107	L3111-9-20-AB1-5	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Eroded, cratered
108	L3111-9-21-AB1-7	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Eroded, cratered
109	L3111-9-22-AB1-9	HMF 330C/334-2024-HMF 330C/934 (9628), 250°F	Eroded
110	L3111-9-23-CM12	T-50(PAN)/934 ((0)2/(90)2)T, 350°F	Eroded
111	L3111-9-24-CM16	T-50(PAN)/X904B-10((0)2/(90)2)T, 350°F	Eroded, distorted, cratered
112	L3111-9-25-CM20	T-50(PAN)/E788((0)2/(90)2)T, 350°F	Eroded, distorted
113	L3111-9-26-CM28	HMS/3501-5A((0)2/(90)2)T, 290°F	Eroded, cratered
114	L3111-9-27-CM46	T50/F263 ((0)2/(90)2)T, 300°F	Eroded, distorted, cratered
115	L3111-9-28-CM32	Celion 6000/E788((0)2/(90)2)T, 350°F	Eroded, distorted
116	L3111-9-29-AM1E	Gold-plated woven Dacron mesh	Eroded, cratered
117	L3111-9-30-AM2E	Gold-plated knitted Dacron mesh	Eroded
118	L3111-9-31-AM3E	Plastic-metal mesh laminate	Eroded
119	L3111-9-32-AM4E	Solid plastic-metal laminate	Eroded, cratered
120	L3111-9-33-AM1A	Gold-plated woven Dacron mesh	Eroded

DB#	Sample ID	Description	Post-Flight Condition
121	L3111-9-34-AM2A	Gold plated knitted Dacron mesh	Eroded
122	L3111-9-35-AM3B	Plastic-metal mesh laminate	Eroded, cratered
123	L3111-9-36-AM4D	Solid plastic-metal laminate	Eroded, cratered
124	L3111-3-37-III	Graphite polyimide	Eroded, contaminated (particle)
125	L3111-3-38-III	Graphite polyimide	Eroded, cratered
126	L3111-3-39-VI	Special carbon/tungsten-bearing resin	Eroded, cratered
127	L3111-3-40-VI	Special carbon/tungsten-bearing resin	Eroded, cratered
128	L3111-3-41-IIIa	Aluminum 2024, AlCu alloy	Discolored, cratered
129	L3111-3-42-IIIa	Aluminum 2024, AlCu alloy	Discolored, cratered
130	L3111-19-43-A-00	Anodized aluminum mounting plate with MOS devices	Discolored, cratered
130 01	L3111-19-43-A-01	MOS Device	Eroded, contaminated (particle), cratered
130 02	L3111-19-43-A-02	MOS Device	Eroded, contaminated (particle)
130 03	L3111-19-43-A-03	MOS Device	Discolored, contaminated (particle), cratered
130 04	L3111-19-43-A-04	MOS Device	Discolored, contaminated (particle), cratered
130 05	L3111-19-43-A-05	MOS Device	Discolored, contaminated (particle), cratered
130 06	L3111-19-43-A-06	MOS Devices	Discolored, contaminated (particle), cratered
130 07	L3111-19-43-A-07	MOS Devices	Discolored, contaminated (particle), cratered
130 08	L3111-19-43-A-08	MOS Device	Discolored, contaminated (particle), cratered
130 09	L3111-19-43-A-09	MOS Device	Discolored, contaminated (particle), cratered
130 1	L3111-19-43-A-10	MOS Devices	Discolored, contaminated (particle), cratered
131	L3111-19-44-B-00	Anodized aluminum mounting plate with GaAs FETs, bulk GaAs	Contamination (particle), cratered
131 01	L3111-19-44-B-01	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 02	L3111-19-44-B-02	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 03	L3111-19-44-B-03	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 04	L3111-19-44-B-04	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 05	L3111-19-44-B-05	GaAs FETs, bulk GaAs	Contaminated (particle)
131 06	L3111-19-44-B-06	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 07	L3111-19-44-B-07	GaAs FETs, bulk GaAs	Corroded, contaminated (particle)
131 08	L3111-19-44-B-08	GaAs FETs, bulk GaAs	Contaminated (particle)
131 09	L3111-19-44-B-3639A	GaAs FETs, bulk GaAs	Contaminated (particle), cratered
131 1	L3111-19-44-B-3639B	GaAs FETs, bulk GaAs	Contaminated (particle), cratered
132	L3111-3-45-V	Aluminum 6061-T6	Cratered
133	L3111-3-46-V	Aluminum 6061-T6	Cratered
134	L3111-3-47-VII	Pyrolytic carbon, Pyro-Carb 431	Eroded
135	L3111-3-48-VII	Pyrolytic carbon, Pyro-Carb 431	Eroded
136	L3111-3-49-I	Tape-wrapped carbon phenolic	Eroded, cratered
137	L3111-3-50-I	Tape-wrapped carbon phenolic	Eroded
138	L3111-3-51-IV	Graphite polysulfone	Eroded
139	L3111-3-52-IV	Graphite polysulfone	Eroded, cratered
140	L3111-3-53-II	Three-dimensional quartz phenolic	Eroded (-)

DB#	Sample ID	Description	Post-Flight Condition
141	L3III-3-54-II	Three-dimensional quartz phenolic	Eroded (-)
142	L3III-8-55-30	Graphite/polyimide (HTS-2 unidirectional tape/PMR 15 [0°])	Eroded, cratered
143	L3III-8-56-10	Graphite/epoxy (T-300 unidirectional tape/Fiberite EA934 epoxy resin [0°])	Eroded, cratered
144	L3III-8-57-S12	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Contaminated (stain)
145	L3III-8-58-S2	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Contaminated (stain)
146	L3III-11-59-S01	Aluminized fused silica mirror	Unchanged
147	L3III-11-60-1	ZnSe infrared plate	Discolored, craters, contaminated (particle)
148	L3III-12-61-2	Thermoluminescent dosimeter, LiF	Discolored
*149	L3III-11-62-X	Corning 7940 second surface aluminum mirror	Flaked, contaminated (particle), cratered
150	L3III-9-63-CM3b	GY70/CE-339(+45/(-45)2/+45)4T, 250°F	Dulled
151	L3III-9-64-CM7b	T-50/F263(+45/(-45)2/+45)4T	Discolored
152	L3III-9-65-CM11b	T-50(PAN)/934(+45/(-45)2/+45)4T, 350°F	Discolored (-)
153	L3III-9-66-CM15a	T-50(PAN)/X904B-10(+45/(-45)2/+45)4T, 350°F	Discolored (-)
154	L3III-9-67-CM19b	T-50(PAN)/E788(+45/(-45)2/+45)4T, 350°F	Discolored (-)
155	L3III-9-68-CM38d	KEVLAR/epoxy K49 fabric/X904B (+45)4S, 350°F	Darkened
156	L3III-9-69-CM45c	T-50/F263 (+45/(-45)2/+45)4T, 300°F	Dulled
157	L3III-9-70-CM31c	Celion 6000/E788(+45/(-45)2/+45)4T, 350°F	Dulled
158	L3III-9-71-AB1-11	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (-)
159	L3III-9-72-AB1-12	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (-)
160	L3III-9-73-AB1-13	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (-)
161	L3III-9-74-AB1-14	HMF 220C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (-)
162	L3III-16-75-E	Composite (unknown fiber/matrix)	Eroded
163	L3IV-4-1-1	Standard 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
164	L3IV-4-2-5	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
165	L3IV-4-3-9	Reflective 350 nm coating/CERIA, Delrin retainer, OCLI	Hazed (+), contaminated (particle), cratered
166	L3IV-4-4-13	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
167	L3IV-4-5-17	HEA 3-1 coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle), cratered
168	L3IV-4-6-24	Mark III D coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
169	L3IV-4-7-25	Mark III E coating/7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
170	L3IV-4-8-29	Contamination coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
171	L3IV-4-9-33	Erosion coating/7940 fused silica, Delrin retainer, OCLI	Hazed (+), contaminated (particle)
172	L3IV-4-10-37	Erosion coating/7940 fused silica, Delrin retainer, OCLI	Hazed, contaminated (particle), cratered
173	L3IV-4-11-41	Mark IV coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle), cratered
174	L3IV-4-12-45	Contamination coating/7940 fused silica, Delrin retainer, OCLI	Eroded, cratered
175	L3IV-4-13-49	7070 fused silica, Delrin retainer, OCLI	Hazed, contaminated (particle), cratered
176	L3IV-4-14-52	7940 fused silica, Delrin retainer, OCLI	Delaminated
177	L3IV-4-15-57	7940 fused silica, Delrin retainer, OCLI	Contaminated (particle), cratered
178	L3IV-4-16-61	Ceria, Delrin retainer, OCLI	Contaminated (particle)
179	L3IV-18-17-1	White thermal control paint, S13GLO/6061 Al, IITRI	Discolored (-), crazed
180	L3IV-18-18-2	White thermal control paint, S13GLO/6061 Al, IITRI	Discolored (-), crazed

DB#	Sample ID	Description	Post-Flight Condition
181	L31V-4-19-A	HESP II silicon cells, 5 cell string	Microfractured, cratered
182	L31V-4-20-GA1	HESP II Ga As cells, 5 cell string	Microfractured, debonded, cratered
183	L31V-4-21-VJ1	Vertical junction silicon cells, 5 cell string	Microfractured, cratered
184	L31V-4-22-B	High performance silicon cells, 5 cell string	Microfractured, cratered
185	L31V-4-23-X3	Conventional silicon cells, 5 cell string	Microfractured, debonded, contaminated (stain)
186	L31V-9-24-CM1b	GY70/CE-339, ((0)16)T, 250°F	Oxidized, cratered
187	L31V-9-25-CM5a	T-50/F263 ((0)16)T, 350°F	Eroded
188	L31V-9-26-CM9a	T-50(PAN)/934 ((0)16)T, 350°F	Eroded
189	L31V-9-27-CM13b	T-50(PAN)/X904B-10 ((0)16)T, 350°F	Eroded
190	L31V-9-28-CM17a	T-50 (PAN)/E788 ((0)16)T, 350°F	Eroded, contaminated (particle), cratered
191	L31V-9-29-CM34c	HMF 176/34 fabric (+45)4S, 350°F	Eroded
192	L31V-9-30-CM43a	T-50/F263 ((0)4)T, 300°F	Eroded, cratered
193	L31V-9-31-CM29a	Celion 6000/E788 ((0)16)T, 350°F	Eroded, cratered
194	L31V-9-32-CM33a	HMF176/34 fabric ((0)16)T, 350°F	Eroded
195	L31V-9-33-CM41b	HMF 176/34 fabric ((0)2(90)2)T, 350°F	Eroded, cratered
196	L31V-9-34-CM37a	KEVLAR/epoxy K49 fabric/X904B ((0)16)T, 350°F	Eroded
197	L31V-9-35-CM39	E glass fabric/CE-339 ((0)16)T, 250°F	Eroded
198	L31V-9-36-TC9	Coated molybdenum foil/1.4μ SiO2	Contaminated (stain), cratered
199	L31V-9-37-TC9	Coated molybdenum foil/1.4μ SiO2	Contaminated (particle), cratered
200	L31V-9-38-TC10	Coated molybdenum foil/ P238 filter (Al2O3)	Corroded
201	L31V-9-39-TC10	Coated molybdenum foil/ P238 filter (Al2O3)	Corroded, cratered
202	L31V-9-40-TC11	Coated molybdenum foil/ Si3N4	Hazed, cratered
203	L31V-9-41-TC11	Coated molybdenum foil/ Si3N4	Microfractured, cratered
204	L31V-9-42-TC12	Polyurethane white paint: Chemglaze A276/II	Eroded, discolored
205	L31V-9-43-TC12	Polyurethane white paint: Chemglaze A276/II	Eroded, discolored, cratered
206	L31V-9-44-TC13	Polyurethane black paint: Chemglaze Z306	Bleached
207	L31V-9-45-TC13	Polyurethane black paint: Chemglaze Z306	Bleached, cratered
208	L31V-9-46-TC1	Teflon FEP polymer coating: Spraylon 7075	Eroded, cratered
209	L31V-9-47-TC1	Teflon FEP polymer coating: Spraylon 7075	Eroded
210	L31V-9-48-TC2	Silicone paint: black vacuum distilled RTV 602	Embrittled, contaminated (stain), cratered
211	L31V-9-49-TC2	Silicone paint: black vacuum distilled RTV 602	Embrittled, contaminated (stain), cratered
212	L31V-9-50-TC3	White silicone high temperature paint: Sperex AP-101	Discolored (+), cratered
213	L31V-9-51-TC3	White silicone high temperature paint: Sperex AP-101	Discolored (+)
214	L31V-9-52-TC6	Ceramic coating : white borated silica	Discolored, cracked, contaminated (particle)
215	L31V-9-53-TC6	Ceramic coating : white borated silica	Discolored, cracked, contaminated (particle)
216	L31V-9-54-TC7	Ceramic coating : black borated silica coating	Bleached, cratered
217	L31V-9-55-TC7	Ceramic coating : black borated silica coating	Cratered
218	L31V-9-56-TC8	Ceramic coating : black HS 4 on LI-900	Darkened, cratered
219	L31V-9-57-TC8	Ceramic coating : black HS 4 on LI-900	Darkened, contaminated (particle)
220	L31V-9-58-TC4	Black silicone high temperature paint : Sperex SP-102	Bleached, cratered

DB#	Sample ID	Description	Post-Flight Condition
221	L31V-9-59-TC4	Black silicone high temperature paint : Sperex SP-102	Bleached
222	L31V-9-60-TC5	Tellon FEP polymer coating: Spraylon 7075	Eroded, discolored (+), flaked, cratered
223	L31V-9-61-TC5	Tellon FEP polymer coating: Spraylon 7075	Eroded, discolored (+), flaked, cratered
224	L31V-8-62-183-3	Thin film solar cell, CuInSe2/CdS	Missing, cratered
225	L31V-8-63-3	Thin solar cell, standard Si	Missing, cratered
226	L31V-8-64-8	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Eroded, cratered
227	L31V-8-65-10	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Eroded, cratered
228	L31V-8-66-12	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Eroded, cratered
229	L31V-8-67-24	Graphite/polysulfone (T-300/ P-1700 polysulfone resin [0°/-90°])	Eroded, cratered
230	L31V-8-68-12	Graphite/epoxy (conditioned) (T-300 unidirectional tape/Fiberite EA 934 epoxy resin [0°])	Eroded, cratered
231	L31V-15-69-Z1	Rhodium coated glassy carbon substrate	Cratered
232	L31V-17-70-L	Thermoluminescent dosimeter, LiF	Discolored, microfractured, cratered
233	L31V-16-71-D	HA-43 polyarylacetylene/ polyphenylquinoxaline blend/Low temp PAN composite	Eroded (-), cratered
234	L31V-16-72-A	HA-43 polyarylacetylene (PAA)/T300 carbon fabric composite	Oxidized
235	L31V-16-73-B	Aerospace polyarylacetylene (PAA)/T300 carbon fabric composite	Eroded (-)
236	L31V-16-74-C	HA-43 polyarylacetylene (PAA)/polyphenylquinoxaline (PPO) blend/T300 carbon fabric composite	Eroded
236.5	L3-V	Composite panel: graphite/934 [02, ±45, 02, ±45, 90, 0]s, with 3 coatings: A276, Z306, S13GLO	Eroded (+), cratered
237	L6III-9-1-TC14-4	LMSC modified Cotronics 931 coating on Ta substrate	Eroded (+)
238	L6III-9-2-TC15-21	JB-1 black coating on Ta substrate	Crazed (+), flaked (-), cratered
239	L6III-9-3-TC16-4	Vestiar coating on Al substrate	Discolored (+), crazed (+), flaked
240	L6III-9-4-TC17-1	GE-SHC 1010 coating on Al substrate	Discolored
241	L6III-10-5-GL2-1	Mirror, graphite/glass: Celson 6000/borosilicate glass	Crazed
242	L6III-10-6-AL8-7	Mirror, GY70/201/2024 clad (6 ply)	Unchanged
243	L6III-9-7-TC18-1	Tedlar (400BS30W11) bonded to Al with Isolack Y9469	Eroded, discolored, cratered
244	L6III-9-8-TC19-1	Black oxide coating on 304 stainless steel substrate	Bleached
245	L6III-10-9-MG7-3	Strip, VS0054/EZ33A/AZ31B clad [0 ± 60°]s (6 ply)	Dulled
246	L6III-10-10-AL7-2	Strip, GY70/201/2024 clad [0 ± 60°]s (6 ply)	Dulled
247	L6III-10-11-MG7-1	Strip, VS0054/EZ33A/AZ31B clad, [0 ± 60°]s (6 ply), epsl. meas., SG 20	Unchanged
248	L6III-10-12-AL7-1	Strip, GY70/201/2024 (6 ply) clad, SG19 [0 ± 60°]s, epsl. meas.	Hazed (-), cratered
249.01	L6III-10-13-1	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
249.02	L6III-10-13-2	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
249.03	L6III-10-13-3	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
249.04	L6III-10-13-4	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
250.01	L6III-10-13-5	Wire, P55(TiO2)/6061Al (Ti + B)	Contaminated (stain) (-)
250.02	L6III-10-13-6	Wire, P55(TiO2)/6061Al (Ti + B)	Contaminated (stain)
251.01	L6III-10-13-7	Wire, GY70(8T)/201	Contaminated (stain)
251.02	L6III-10-13-8	Wire, GY70(8T)/201	Contaminated (stain)
252.01	L6III-10-13-9	Wire, P55/6061Al (Ti + B)	Contaminated (stain)
252.02	L6III-10-13-10	Wire, P55/6061Al (Ti + B)	Contaminated (stain)
253	L6III-10-13-11	Wire, T300/6061 Al	Contaminated (stain, particle)

DB#	Sample ID	Description	Post-Flight Condition
254	L6III-10-14-12	Wire, T300/6061Al	Contaminated (stain)
255 01	L6III-10-14-13	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
255 02	L6III-10-14-14	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
255 03	L6III-10-14-15	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
255 04	L6III-10-14-16	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
256 01	L6III-10-14-17	Wire, P55(10K)/6061Al	Contaminated (stain)
256 02	L6III-10-14-18	Wire, P55(10K)/6061Al	Contaminated (stain)
256 03	L6III-10-14-19	Wire, P55(10K)/6061Al	Contaminated (stain)
256 04	L6III-10-14-20	Wire, P55(10K)/6061Al	Contaminated (stain)
257 01	L6III-10-14-21	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
257 02	L6III-10-14-22	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
258	L6III-10-15-AL3-2	Strip, GY70/201/2024 clad (1 ply), (0), epsl. meas., SG18	Hazed, contaminated (stain)
259	L6III-10-16-AL14-10	Strip, VSB32/6061-T6/6061 Al clad (0) (1 ply), SG17, CTS4, epsl. meas.	Hazed, contaminated (stain)
260	L6III-10-17-AL15-1	Strip, VSB32/6061-T6/6061 Al clad, (90°), epsl. meas., SG16	Distorted, hazed, contaminated (stain)
261	L6III-10-18-AL3-3	Strip, GY70/201/2024 clad, (0), (1 ply)	Hazed, contaminated (stain)
262	L6III-10-19-AL3-4	Strip, GY70/201/2024 clad, (0), (1 ply)	Hazed, contaminated (stain), cratered
263	L6III-10-20-AL4-1	Strip, GY70/201/2024 clad, (90°)	Hazed, contaminated (stain)
264	L6III-10-21-AL4-2	Strip, GY70/201/2024 clad, (90°)	Hazed, contaminated (stain)
265	L6III-10-22-AL5-9	Strip, GY70/201/2024 clad, (0), (1 ply)	Hazed, contaminated (stain), cratered
266	L6III-10-23-AL5-1	Strip, GY70/201/2024 clad, (0), (1 ply)	Hazed, contaminated (stain)
267	L6III-10-24-EP1-2	Strip, GY70/X-30 [0/45/90/135]4	Eroded, contaminated (stain)
268	L6III-10-25-AL5-2	Strip GY70/201/2024 clad, (0), (1 ply)	Hazed, contaminated (stain)
269	L6III-10-26-PS5-1	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Eroded, contaminated (stain)
270	L6III-10-27-PS5-2	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Eroded, contaminated (stain), cratered
271	L6III-10-28-SS1-7	Strip, Invar LR-35	Hazed, contaminated (stain)
272	L6III-9-29-S0-0	Strip, Sodal O coating: (A, DC93-500/ B, R-2501)	Crazed, wrinkled, cratered
274	L6III-10-31-PS2-4	Strip, W-722 (Graphite/Glass fabric)/P1700	Darkened, flaked, contaminated (stain), cratered
275	L6III-10-32-PS3-1	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	Contaminated (stain), wrinkled
276	L6III-10-33-PS3-2	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	Contaminated (stain), wrinkled, cratered
277	L6III-10-34-EP3-3	Strip, T300 lape/934, (0)	Eroded, contaminated (stain), cratered
278	L6III-10-35-EP3-4	Strip, T300 lape/934, (0)	Eroded, contaminated (stain)
279	L6III-10-36-MG9-L1	Strip, P100/AZ91C/AZ61A, (0°)	Distorted, contaminated (stain)
280	L6III-10-37-23	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
281 01	L6III-10-37-24	Wire, P55 (10K)/AZ91C	Discolored
281 02	L6III-10-37-25	Wire, P55 (10K)/AZ91C	Unchanged
281 03	L6III-10-37-26	Wire, P55 (10K)/AZ91C	Unchanged
282 01	L6III-10-38-27	Wire, SiC/6061 Al	Contaminated (stain)
282 02	L6III-10-38-28	Wire, SiC/6061 Al	Distorted, contaminated (stain)
282 03	L6III-10-38-29	Wire, SiC/6061 Al	Distorted, contaminated (stain)
282 04	L6III-10-38-30	Wire, SiC/6061 Al	Contaminated (stain)

DB#	Sample ID	Description	Post-Flight Condition
282 05	L6III-10-38-31	Wire, SiC/6061 Al	Contaminated (stain)
282 06	L6III-10-38-32	Wire, SiC/6061 Al	Contaminated (stain)
282 07	L6III-10-38-33	Wire, SiC/6061 Al	Contaminated (stain)
282 08	L6III-10-38-34	Wire, SiC/6061 Al	Contaminated (stain)
282 09	L6III-10-39-35	Wire, SiC/6061 Al	Contaminated (stain)
282 1	L6III-10-38-36	Wire, SiC/6061 Al	Contaminated (stain)
282 11	L6III-10-38-37	Wire, SiC/6061 Al	Contaminated (stain)
282 12	L6III-10-38-38	Wire, SiC/6061 Al	Unchanged
282 13	L6III-10-38-39	Wire, SiC/6061 Al	Contaminated (stain)
282 14	L6III-10-38-40	Wire, SiC/6061 Al	Unchanged
282 15	L6III-10-38-41	Wire, SiC/6061 Al	Distorted
282 16	L6III-10-38-42	Wire, SiC/6061 Al	Unchanged
282 17	L6III-10-38-43	Wire, SiC/6061 Al	Unchanged
282 18	L6III-10-38-44	Wire, SiC/6061 Al	Distorted (-)
283	L6III-10-39-AL15-8	Strip, VSB32/6061-T6 Al/6061 clad (90), epsl. meas., SG15	Cratered
284	L6III-10-40-MG3-17	Strip, VS0034/EZ33A/AZ31B (0), epsl. meas., SG14, CTS3	Distorted
285	L6III-10-41-MG5-23	Strip, VS0034/EZ33A/AZ31B (0), epsl. meas., SG13 clad	Distorted
286	L6III-10-42-AL12-1	Strip, VSB32/6061-T6 Al/6061 clad (0)	Hazed
287	L6III-10-43-AL6-1	Strip, GY70/201/2024 clad (90)	Dulled (-), contaminated (stain), cratered
288	L6III-10-44-AL6-5	Strip, GY70/201/2024 clad (90)	Dulled (-), cratered
289	L6III-9-45-S0-G	Strip, Sodal G coating: (A, DC93-500/ B, R-2500)	Crazed, wrinkled, cratered
291	L6III-10-47-MG9-L2	Strip, P100/AZ91C/AZ61A (0*)	Distorted
292	L6III-10-48-PS3-5	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Eroded, contaminated (stain)
293	L6III-10-49-PS4-1	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Contaminated (stain)
294	L6III-10-50-PS5-5	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Eroded, contaminated (stain)
295	L6III-10-51-PS6-1	Rivoted lap W-722(Graphite/Glass fabric)/P1700/ZnO coating	Eroded, contaminated (stain)
296	L6III-10-52-PS4-3	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Contaminated (stain)
297	L6III-10-53-PS4-4	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Contaminated (stain)
298	L6III-10-54-GL1-1	Strip, graphite/glass: Celion 6000/borosilicate glass	Eroded
299	L6III-10-55-EP12-1	Strip, P75S/934 (0/145/90/135)S2	Eroded, contaminated (stain)
300	L6III-10-56-EP12-2	Strip, P75S/934 (0/45/90/135)S2	Eroded, contaminated (stain)
301	L6III-10-57-EP4-4	Strip, AS/3501-6 (0)	Eroded
302	L6III-10-58-PS2-3	Strip, W-722(Graphite/Glass fabric)/P1700	Eroded, darkened
303	L6III-10-59-AL12-2	Strip, VSB32/6061-T6/6061 Al clad, (0)	Hazed (-), contaminated (stain)
304	L6III-10-60-AL12-3	Strip, VSB32/6061-T6/6061 Al clad, (0)	Hazed (-), contaminated (stain)
305	L6III-9-61-S0-A	Strip, Sodal A coating: (A, Electrodag 502 / B, Electrodag 501)	Unchanged
307	L6III-10-63-SS1-1	Strip, Invar LR35, epsilon meas., SG12	Distorted, corroded
308	L6III-10-64-SS1-3	Strip, Invar LR35, epsilon meas., SG11, CTS 2	Distorted, contaminated (stain)
309	L6III-10-65-PS7	Strip, T300/polysulfone/TiO2 coating, epsilon meas., SG10	Eroded
310	L6III-10-66-EP3-1	Strip, T300 lap/934 (0), epsilon meas., SG9, CTS 1	Eroded

Post-Flight Condition

DB#	Sample ID	Description	Post-Flight Condition
311	L6III-10-67-PS2-1	Strip, W-722(Graphite/Glass fabric)/P1700, epsilon meas., SG8	Eroded, discolored
312	L6III-10-68-PS1-1	Strip, T300 Fabric/P1700, epsilon meas., SG7, [0/90]	Eroded, cratered
313	L6III-10-69-MG3-5	Strip, VS0054/EZ33A/AZ31B clad, (0)	Distorted
314	L6III-10-70-MG9-T2	Strip, P100/AZ91C/AZ61A (90)	Distorted, dulled
315	L6III-10-71-MG3-1	Strip, VS0054/EZ33A/AZ31B clad, (0)	Distorted, dulled
316	L6III-10-72-EP13-1	Strip, GY70/934 (0.45,90,135)S2	Eroded
317	L6III-10-73-MG9-T6	Strip, P100/AZ91C/AZ61A (90)	Distorted, dulled
318	L6III-10-74-AL6-9	Strip, GY70/201/2024 clad (90)	Dulled, cratered
319	L6III-10-75-MG5-6	Strip, VS0054/EZ33A/AZ31B clad, (0)	Dulled, cratered
320	L6III-10-76-EP13-2	Strip, GY70/934 (0.45/90/135)S2	Eroded
321	L6III-10-77-EP15-1	Strip, T300/5208/ZnO coating	Discolored, contaminated (stain)
322	L6III-10-78-AL14-1	Strip, VSB32/6061-T6/6061 Al clad (0)	Hazed, cratered
323	L6III-10-79-AL14-14	Strip, VSB32/6061-T6/6061 Al clad (0)	Dulled
324	L6III-10-80-EP10-1	Strip, E-glass 120 Fabric/X904B, (0)	Eroded, cratered
325	L6III-10-81-PS6-3	Rivoted lap, 722(Graphite/Glass fabric) P1700/ZnO coating	Eroded, cratered
326	L6III-10-82-PS6-4	Rivoted lap, 722(Graphite/Glass weave) P1700/ZnO coating	Eroded
327	L6III-10-83-EP5-1	Strip, GY70/X904B, (0)	Eroded
328	L6III-10-84-EP6-1	Strip, GY70/X904B, (0/90/90/0)	Eroded, cratered
329	L6III-10-85-EP7-1	Strip, GY70/X904B, [+45/(-45)2/+45]4	Eroded, cratered
330	L6III-10-86-EP8-1	Strip, HMS/3501-5A, (0/90/90/0)4	Eroded, cratered
331	L6III-10-87-EP9-1	Strip, HMS/3501-5A, (0)	Eroded, cratered
332	L6III-10-88-P11-3	Strip, Cation 6000/PMR-15 (0)	Distorted, eroded, cratered
333	L6III-10-89-P11-4	Strip, Cation 6000/PMR-15(0)	Distorted, eroded, cratered
334	L6III-10-90-EP22-1	Strip, GY70/CE339 (0/45/90/135)S2	Eroded, cratered
335	L6III-10-91-PS1-3	Strip, T300 Fabric/P1700, (0.90)	Eroded
336	L6III-10-92-MG6-1	Strip, VS0054/EZ33A/AZ31B clad, (90)	Distorted, dulled, discolored
337	L6III-10-93-AL32-4	Strip, SiC fibers/Al	Unchanged
338	L6III-10-94-MG6-9	Strip, VS0054/EZ33A/AZ31B clad, (90)	Dulled, contaminated (stain), cracked
339	L6III-10-95-AL31-1	Strip, SiC whiskers/6061 Al	Dulled
340	L6III-10-96-AL30-2	Strip, SiC whiskers/2124 Al	Unchanged
341	L6III-10-97-GL3-1	Strip, graphite/glass: Cation 6000/borosilicate glass	Cratered
342	L6III-10-98-EP2-1	Strip, GY70/X-30/Sn-In eut. (0/45/90/135)4	Cratered
343	L6III-10-99-EP2-2	Strip, GY70/X-30/Sn-In eut.(0/45/90/135)4	Dulled
344	L6III-10-100-EP4-2	Strip, AS/3501-6(0) epsilon meas., SG6	Eroded, cratered
345	L6III-10-101-P11-1	Strip, Cation 6000/PMR-15, epsilon meas., SG5 (0)	Distorted, eroded, cratered
346	L6III-10-102-EP1-1	Strip, GY70/X-30/Sn-In eut. (0/45/90/135)4 epsilon meas., SG4	Eroded (+), cratered
347	L6III-10-103-PS11-1	Strip, T300/polyether sulfone, epsilon meas., SG3	Eroded (+), cratered
348	L6III-10-104-P15-2	Strip, T300/V378A, epsilon meas., SG2 (0/45/90/135)S2	Eroded (+), cratered
349	L6III-10-105-P12-1	Strip, Graphite/LARC-160, epsilon meas., SG1	Eroded (+), cratered
350	L6III-10-106-AL33-2	Strip, P100/201/2024 (+20%/20%)S	Eroded (+), cratered

DB#	Sample ID	Description	Post-Flight Condition
351	L6III-10-107-PS8	Strip, T300/P1700/TiO2 coating	Discolored (-), cratered
352	L6III-10-108-PS9	Strip, T300/P1700/Al flake	Unchanged
353	L6III-10-109-PS10	Strip, T300/P1700/ZnO coating	Discolored (-)
354	L6III-10-110-EP22-7	Strip, GY70/CE339 (0/45/90/135)S2	Oxidized
355	L6III-10-111-MG10-5	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Dulled
356	L6III-10-112-MG10-7	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Dulled
357	L6III-10-113-AL33-6	Strip, P100/201/2024 (+20°/-20°)S	Unchanged
358	L6III-10-114-EP21-1	Strip, P75S/CE399 (0/45/90/135)S4	Eroded
359	L6III-10-115-EP21-2	Strip, P75S/CE339 (0/45/90/135)S4	Eroded
360	L6III-10-113-AL32-8	Strip, SiC fibers/Al	Unchanged
361	L6III-10-117-PI5-1	Strip, T300/V378A (0/45/90/135)S2	Eroded
362	L6III-10-118-PI5-4	Strip, T300/V378A (0/45/90/135)S2	Eroded
363	L6III-10-119-PS1-9	Strip, T300 Fabric/P1700, (0/90)	Eroded
364	L6III-10-120-EP4-5	Strip, AS/3501-6 (0)	Eroded
365	L6III-10-121-PI2-3	Strip, graphite/LARC 160	Oxidized
366	L6III-10-122-PI3	Strip, Cation 6000/polyimide	Discolored
367	L6III-10-123-AL8-4	Mirror, GY70/201/2024 clad(0/±60°)s	Contaminated (stain)
368	L6III-9-124-TC14-5	Ta substrate/LMSC modified Coltronics 931 coating	Unchanged
369	L6III-9-125-TC15-24	Ta substrate/JB-1 black coating	Crazed, darkened
370	L6III-9-126-TC16-5	Al substrate/Vestlar coating	Crazed, flaked
371	L6III-9-127-TC17-2	Al substrate/GE-SHC 1010 coating	Hazed (-), cracked
372	L6III-9-128-TC19-2	Stainless steel substrate, black oxide coating	Dulled
373	L6III-9-129-TC18-2	Tedlar (400BS30W11) bonded to Al with Isolack Y9469	Contaminated (particle)
374	L6III-10-130-AL8-2	Mirror, GY70/201/2024 clad (0/±60°)s	Unchanged
375	L6III-10-131-MG7-7	Strip, VS0054/EZ33A/AZ31B clad, (0/±60°)s	Dulled
376	L6III-10-132-AL7-5	Strip, GY70/201/2024 clad, (0/±60°)s	Unchanged
377	L6III-9-133-C48-7	Strip, P75S/934, 102-15A	Unchanged
378	L6III-9-133-C48-10	Strip, P75S/934, 102-15A	Unchanged
379	L6III-9-134-C47-9	Strip, P75S/F593, 102-270	Contaminated (stain)
380	L6III-9-134-C47-12	Strip, P75S/F593, 102-270	Contaminated (stain)
381	L6III-10-135-1	Wire, P100/AZ61A (Ti + B)	Unchanged
382	L6III-10-135-2	Wire, P55 (Ti02)/6061 Al (Ti + B)	Unchanged
383	L6III-10-135-3	Wire, GY70 (8T)/201	Unchanged
384	L6III-10-135-4	Wire, P55/6061Al (Ti + B)	Unchanged
385	L6III-10-135-5	Wire, T300/6061Al	Contaminated (stain)
386	L6III-10-135-6	Wire, P100/6061 Al (Ti + B)	Unchanged
387	L6III-10-135-7	Wire, P55 (10K)/6061 Al	Unchanged
388	L6III-10-135-8	Wire, P100/AZ31B (Ti + B)	Unchanged
389	L6III-10-135-9	Wire, P55 (10K)/ AZ91C	Unchanged
390	L6III-10-135-10	Wire, SiC/6061 Al	Unchanged

Q8s	Sample ID	Description	Post-Flight Condition
391 01	L6III-10-136-11	Wire, SiC/6061 Al	Unchanged
391 02	L6III-10-136-12	Wire, SiC/6061 Al	Unchanged
391 03	L6III-10-136-13	Wire, SiC/6061 Al	Unchanged
391 04	L6III-10-136-14	Wire, SiC/6061 Al	Unchanged
393	L6III-10-138-AL3-8	Strip, GY70/201/2024 clad, (0°)	Contaminated (stain)
394	L6III-10-139-AL3-9	Strip, GY70/201/2024 clad, (0°)	Unchanged
395	L6III-10-140-AL4-5	Strip, GY70/201/2024 clad, (90°)	Contaminated (stain)
396	L6III-10-141-AL4-6	Strip, GY70/201/2024 clad, (90°)	Contaminated (stain)
397	L6III-10-142-AL15-11	Strip, VS832/6061-T6/6061 Al clad, (90°)	Contaminated (stain)
398	L6III-10-143-AL5-3	Strip, GY70/201/2024 clad, (0°)	Contaminated (stain)
399	L6III-10-144-AL5-4	Strip, GY70/201/2024 clad, (0°)	Unchanged
400	L6III-10-145-AL5-10	Strip, GY70/201/2024 clad, (0°)	Contaminated (stain)
401	L6III-10-146-EPI-5	Strip, GY70/X-30, (0/45/90/135)4	Contaminated (stain)
402	L6III-10-147-EPI-6	Strip, GY70/X-30, (0/45/90/135)4	Contaminated (stain)
403	L6III-10-148-PS5-7	Revoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Contaminated (stain)
404	L6III-10-149-EP22-11	Strip, GY70/CE339 (0/45/90/135)S2	Oxidized
405	L6III-10-150-SS1-8	Strip, Invar LR35	Contaminated (stain)
406	L6III-10-151-PS2-7	Strip, W-722(Graphite/Glass fabric)/P1700	Contaminated (stain)
407	L6III-10-152-PS2-8	Strip, W-722(Graphite/Glass fabric)/P1700	Contaminated (stain)
408	L6III-10-153-PS2-9	Strip, W-722(Graphite/Glass fabric)/P1700	Unchanged
409	L6III-10-154-PS3-7	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Contaminated (stain)
410	L6III-10-155-PS3-8	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Contaminated (stain)
411	L6III-10-156-EP3-7	Strip, T300 lape/934, (0)	Contaminated (stain)
412	L6III-10-157-EP3-8	Strip, T300 lape/934, (0)	Contaminated (stain)
413	L6III-10-158-EP3-9	Strip, T300 lape/934, (0)	Crazed, contaminated (stain)
416	L6III-10-161-AL6-2	Strip, GY70/201/2024 clad, (90°)	Unchanged
417	L6III-10-162-AL6-6	Strip, GY70/201/2024 clad, (90°)	Unchanged
418	L6III-10-163-AL6-10	Strip, GY70/201/2024 clad, (90°)	Unchanged
419	L6III-10-164-AL12-4	Strip, VS832/6061-T6/6061 Al (0)	Unchanged
420	L6III-10-165-AL12-5	Strip, VS832/6061-T6/6061 Al (0)	Unchanged
421	L6III-10-166-AL12-6	Strip, VS832/6061-T6/6061 Al (0)	Unchanged
422	L6III-10-167-MG10-1	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Dullied
423	L6III-10-168-MG10-2	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Unchanged
424	L6III-10-169-MG5-12	Strip, VS/0054/EZ33A/AZ31B clad (0°)	Unchanged
425	L6III-10-170-PS3-9	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Unchanged
426	L6III-10-171-PS4-7	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
427	L6III-10-172-PS4-9	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
428	L6III-10-173-PS6-7	Revoted lap W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
429	L6III-10-174-PS4-8	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
430	L6III-9-175-S0-P	Strip, Soldal P coating: (A, DC93-500/ B, R-2501)	Contaminated (particle)

DBs	Sample ID	Description	Post-Flight Condition
432	L6III-10-177-EP12-5	Strip. P75S/934. (0/45/90/135)S2	Contaminated (stain)
433	L6III-10-178-EP12-6	Strip. P75S-934. (0/45/90/135)S2	Contaminated (stain)
434	L6III-10-179-EP4-8	Strip. AS/3501-6 (0)	Discolored
435	L6III-10-180-EP4-9	Strip. AS/3501-6 (0)	Discolored
436	L6III-10-181-EP4-10	Strip. AS/3501-6 (0)	Crazed, contaminated (stain)
437	L6III-10-182-P11-7	Strip. Celion 6000.PMR 15. (0)	Crazed, contaminated (stain)
438	L6III-10-183-AL14-9	Strip. VSB32-6061-T6-6061 Al clad (0)	Unchanged
439	L6III-10-184-AL14-2	Strip. VSB32-6061-T6-6061 Al clad (0)	Unchanged
440	L6III-10-185-AL14-1	Strip. VSB32-6061-T6-6061 Al clad (0)	Unchanged
441	L6III-10-186-AL15-2	Strip. VSB32-6061-T6-6061 Al clad (90)	Unchanged
442	L6III-10-187-AL15-9	Strip. VSB32-6061-T6-6061 Al clad (90)	Unchanged
443	L6III-10-188-EP22-3	Strip. GY70-CE339 (0/45/90/135)S2	Dulled ()
444	L6III-10-189-AL33-3	Strip. P100-201-2024 Al (+20/-20)S	Unchanged
445	L6III-10-190-MG3-2	Strip. VS0054/EZ33A/AZ31B. (0)	Unchanged
446	L6III-10-191-AL33-4	Strip. P100/201/2024 Al (+20/-20)S	Unchanged
447	L6III-10-192-MG4-2	Strip. VS0054/EZ33A/AZ31B. (90)	Unchanged
448	L6III-10-193-EP13-5	Strip. GY70/934 (0/45/90/135)S2	Contaminated (stain)
449	L6III-10-194-MG5-2	Strip. VS0054/EZ33A/AZ31B. (0)	Unchanged
450	L6III-10-195-MG3-3	Strip. VS0054/EZ33/AZ31BA clad (0)	Unchanged
451	L6III-10-196-MG5-8	Strip. VS0054/EZ33A/AZ31B clad (0)	Contaminated (stain)
452	L6III-10-197-EP13-6	Strip. GY70/934 (0/45/90/135)S2	Contaminated (stain)
453	L6III-10-198-EP17-1	Strip. T300/2 mil-3M 113 viscoelastic tape/5208	Contaminated (stain)
454	L6III-10-199-EP10-3	Strip. E-glass 120 Fabric/X904B. (0)	Unchanged
455	L6III-10-200-EP16-2	Strip. T-300/5208	Contaminated (stain)
456	L6III-10-201-EP11-2	Strip. HMS/3501-5A [(+45/(-45)2/+45)4T	Contaminated (stain)
457	L6III-10-202-EP8-2	Strip. HMS/3501-5A. [0/(90)2/0]4T	Contaminated (stain)
458	L6III-10-203-EP9-2	Strip. HMS/3501-5A [(0)16]T	Contaminated (stain)
459	L6III-10-204-EP5-3	Strip. GY70/X904B. (0 ⁺)	Contaminated (stain)
460	L6III-10-205-EP6-3	Strip. GY70/X904B. (0 ⁺ /90/90/0)	Contaminated (stain)
461	L6III-10-206-EP7-3	Strip. GY70/X904B. [(+45/(-45)2/+45)4T	Contaminated (stain)
462	L6III-10-207-PS1-5	Strip. T300 Fabric/P-1700 (0, 90)	Contaminated (stain)
463	L6III-10-208-PS1-6	Strip. T300 Fabric/P-1700 (0, 90)	Contaminated (stain)
464	L6III-10-209-GL3-2	Strip. graphite glass: Celion 6000/borosilicate glass	Contaminated (stain)
468	L6III-10-213-MG6-8	Strip. VS0054/EZ33A/AZ31B. (90)	Contaminated (stain)
469	L6III-10-214-MG6-2	Strip. VS0054/EZ33A/AZ31B clad. (90)	Contaminated (stain)
470	L6III-10-215-MG5-15	Strip. VS0054/EZ33A/AZ31B clad. (90)	Contaminated (stain)
471	L6III-10-216-MG3-15	Strip. VS0054/EZ33A/AZ31B. (0)	Contaminated (stain)
472	L6III-9-217-S0-B	Strip. Soldal B coating: (A, Electrodag 502 / B, Electrodag 501)	Contaminated (stain)
474	L6III-10-219-MG9-L3	Strip. P100/AZ91C/AZ61A (0)	Contaminated (stain)
475	L6III-10-220-MG9-L5	Strip. P100/AZ91C/AZ61A (0)	Contaminated (stain)

DBS	Sample ID	Description	Post-Flight Condition
476	L6III-10-221-EP21-1E	Stirp. P75S/CE-339 (0/45/90/135)S4	Contaminated (stain)
477	L6III-10-222-EP2-3	Stirp. GY70/X-30/Sn-In eut. (0/45/90/135)4	Contaminated (stain)
478	L6III-10-223-EP2-4	Stirp. GY70/X-30 (0/45/90/135)4	Contaminated (stain)
479	L6III-10-224-EP22-9	Stirp. GY70/CE-339 (0/45/90/135)S2	Contaminated (stain)
480	L6III-10-225-AL31-2	Stirp. SiC whiskers/6061	Contaminated (stain)
481	L6III-10-226-AL30-4	Stirp. SiC whiskers/2124	Contaminated (stain)
482	L6III-10-227-AL32-1	Stirp. SiC fibers/Al	Contaminated (stain)
483	L6III-10-228-AL32-2	Stirp. SiC fibers/Al	Contaminated (stain)
484	L6III-10-229-EP21-5	Stirp. P75S/CE-339 (0/45/90/135)S4	Contaminated (stain)
485	L6III-10-230-EP21-6	Stirp. P75S/CE-339 (0/45/90/135)S4	Contaminated (stain)
486	L6III-10-231-PI5-7	Stirp. T300/V378A (16 ply)	Contaminated (stain)
487	L6III-10-232-PI5-8	Stirp. T300/V378A (16 ply)	Contaminated (stain)
488	L6III-10-233-PI5-9	Stirp. T300/V378A (16 ply)	Contaminated (stain)
489	L6III-10-234-PS1-11	Stirp. T300 Fabric/P1700 (0. 90)	Contaminated (stain)
490	L6III-10-235-PI2-5	Stirp. Graphite/LARC-16	Contaminated (stain)
491	L6III-10-236-PI2-6	Stirp. Graphite/LARC-160	Contaminated (stain)
492	L6III-10-237-PI2-7	Stirp. Graphite/LARC-160	Contaminated (stain)
493	L6III-9-238-S0-H	Stirp. Solid H coating: (A. DC93-500/ B. R 2500)	Crazed, contaminated (particle, stain)
495	L6III-10-240-EP13-1E	Stirp. GY70/934 (0/45/90/135)S2	Contaminated (stain)
499	L6III-10-244-AL14-6	Stirp. VS832/6061-T6/6061 Al clad (0)	Contaminated (stain)
500	L6VI-7-1-46-11	Mirror, Ag + (A2O3/Si)3 multi-layer coating on polished silicon substrate	Microfractured, corroded, cratered
501	L6VI-1-2-C33	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
502	L6VI-1-3-B33	WO3 (UV treated)+IR dye/Al substrate	Eroded
503	L6VI-1-4-A33	WO3 (UV treated)/polyurethane/Al substrate	Eroded
504	L6VI-11-5-BG02	Low scatter black glass	Hazed
505	L6VI-11-6-S02	Aluminized fused silica mirror	Contaminated (particle)
506	L6VI-5-7-A1	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al General Electric	Contaminated (stain)
507	L6VI-5-8-A2	Indium-Tin oxide/Teflon FEP/Ag/Inconel. 5 mil. Sheldahl	Hazed
508	L6VI-11-9-N02	Low scatter nickel mirror	Hazed
509	L6VI-11-10-C82-4	Gold coated nickel mirror	Corroded
510	L6VI-5-11-A3LC	Porcelain enamel on Al. NASA Marshall Space Flight Center	Contaminated (particle)
511	L6VI-5-12-A4	Indium-Tin oxide/Teflon FEP/Ag/Inconel. 2 mil. Sheldahl	Hazed
512	L6VI-5-13-A5B	Black paint, D111, ITRI	Crazed
513	L6VI-6-14-IV	Ag/Teflon FEP covered cassette holding four laser communication components	Cover: buckled
514	L6VI-11-15-2	ZnSe infrared plate	Contaminated (spatter)
515	L6VI-5-16-A6	7µm quartz fabric chemical and heat cleaned (-450°C), adhesive bond, General Electric	Contaminated (stain)
516	L6VI-5-17-A7	Teflon FEP/Ag/Inconel. 2 mil. Sheldahl	Hazed
517	L6VI-8-18-S4	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Unchanged
518	L6VI-8-19-F1	Silicon nitride foam	Unchanged
519	L6VI-8-20-S5	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Unchanged

DB#	Sample ID	Description	Post-Flight Condition
520	L6VI 4 21 X1	Conventional silicon cells, 5 cell string	Microfractured
521	L6VI 11 22 2	Corning 7940 second surface aluminum mirror	Hazed
522	L6VI 5 23 B1	Optical Solar Reflector OCLI SI-100	Corroded
523	L6VI 5 24 B4	Al mirror glass	Microfractured
524	L6VI 5 25 B5	Ag mirror/Al	Corroded (+)
525	L6VI 5 26 B3	Au mirror/Al	Discolored
526	L6VI 12 27 3	Thermoluminescent dosimeter, LiF	Buckled
527	L6VI 5 28 B2	Optical Solar Reflector, OCLI SI 100 with conductive coating	Corroded
528	L6VI 5 29 A8	Tellon FEP Ag Inconel, 5 mil, Sheldahl	Hazed
529	L6VI 5 30 A9	In2O3 Tellon FEP Ag Inconel, 5 mil, General Electric	Microfractured
530	L6VI 5 31 A10	Kapton-Al 1 mil, Sheldahl	Eroded, cratered
531	L6VI 5 32 A11	Kapton-Al, 5 mil Sheldahl	Eroded
532	L6VI 5 33 A12	In2O3 Kapton-Al, 5 mil, General Electric	Microfractured
533	L6VI 5 34 A13	White paint, Z93, IITRI	Unchanged
534	L6VI 5 35 A14	White paint, S13GLO, IITRI	Discolored (-)
535	L6VI 5 36 A15	White paint, YB 71, IITRI	Crystallized
536	L6VI 5 37 A16	White paint, NS 43G, NASA Goddard Space Flight Center	Discolored (-)
537	L6VI 5 38 A17	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (-)
538	L6VI 5 39 A18	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+), contaminated (particle)
539	L6VI 5 40 A19	White paint, PV100, TiO2/silicone resin, ML101, Air Force Materials Laboratory	Contaminated (particle)
540	L6VI 5 41 A20	White paint, TiO2/RTV 602, ML101, Air Force Materials Laboratory	Discolored (-)
541	L6VI 5 42 A21	White paint, DC92 007, TiO2/RTV 3140, Rockwell Int.	Discolored, contaminated (particle)(+)
542	L6VI 5 43 A22	White paint, DC92 007, TiO2/RTV 3140, Rockwell Int.	Discolored, contaminated (particle)
543	L6VI 2 44 002	Fused SiO2	Unchanged, cratered
544	L6VI 2 45 018	Fused SiO2	Unchanged
545	L6VI 2 46 019	Fused SiO2	Contaminated (particle)
546	L6VI 2 47 014	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, cratered
547	L6VI 2 48 022	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, contaminated (particle), cratered
548	L6VI 2 49 024	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, contaminated (particle)
549	L6VI 2 50 N19	Polished molybdenum	Corroded (-), contaminated (particle)
550	L6VI 2 51 N23	Polished molybdenum	Hazed
551	L6VI 2 52 N8	Polished molybdenum	Hazed
552	L6VI 2 53 N3	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Contaminated (particle), cratered
553	L6VI 2 54 N6	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Hazed
554	L6VI 2 55 N14	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Hazed
555	L6VI 2 56 8692	Diamond-turned copper, A surface	Oxidized, contaminated (particle)
556	L6VI 2 57 8683	Diamond-turned copper, B surface	Oxidized, contaminated (particle)
557	L6VI 2 58 8686	Diamond-turned copper, A surface	Oxidized, contaminated (particle)
558	L6VI 2 59 2	Diamond-turned nickel coated copper, A surface	Contaminated (particle)
559	L6VI 2 60 4	Diamond-turned nickel coated copper, A surface	Hazed, contaminated (particle)

DB#	Sample ID	Description	Post-Flight Condition
560	L6VI-2-61-6	Diamond-turned nickel coated copper, B surface	Hazed, contaminated (particle)
561	L6VI-1-62-C41	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
562	L6VI-1-63-B41	WO3 (UV treated)+IR dye/Al substrate	Eroded, discolored
563	L6VI-1-64-A41	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
564	L6VI-1-65-B52	WO3 (UV treated)+IR dye/Al substrate	Discolored (-)
565	L6VI-1-66-A52	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
566	L6VI-7-67-239	Mirror, Ag+(Al ₂ O ₃ /ZnS)*4 multi-layer coating on polished molybdenum substrate	Corroded (+), hazed
567	L6VI-7-68-15	Mirror, Ag+(ThF ₄ /ZnS)*5 multi-layer coating on polished molybdenum substrate	Hazed
568	L6VI-1-69-C52	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
569	T3I-1-1-C	Resonant reflector	Corroded, cratered
570	T3I-1-2-D	Circuit analog sheet	Discolored (+), cratered
571	T3I-1-3-A	Capacitive grid	Contaminated (particle, stain), cratered
572	T3I-1-4-B	Resonant window	Corroded, Contaminated (stain), cratered
573	T3I-9-5-CW1	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
574	T3I-9-6-CW2	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
575	T3I-9-7-CW3	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
576	T3I-9-8-CW4	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	Unchanged
577	T3II-5-1-C1	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	Roughened, embrittled
578	T3II-5-2-C2	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	Embrittled, flaked
579	T3II-5-3-C3	Kapton/Al, 1 mil, Sheldahl	Unchanged
580	T3II-5-4-C4	Kapton/Al, 5 mil, Sheldahl	Unchanged
581	T3II-5-5-C5	Teflon FEP type A, 5 mil	Embrittled, discolored
582	T3II-5-6-C6	Teflon FEP/Ag/Inconel (5 mil)/Eccobond 57C/Kapton (5 mil)	Embrittled, crazed
583	T3II-5-7-C7	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Debonded, crazed
584	T3II-5-8-C8	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Embrittled, crazed
585	T3II-5-9-C9	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Debonded, crazed
586	T3II-5-10-C10	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	Debonded, crazed
587	T3II-5-11-C11	Teflon FEP/Ag/Inconel (5 mil)/Y966/Kapton (5 mil)	Embrittled, crazed
588	T3II-5-12-C12	Teflon FEP/Ag/Inconel (5 mil)/NATO IIIIC/Kapton, 8.5 mil	Roughened
589	T3II-5-13-C13	Nylon 6/6, 5 mil	Discolored, embrittled
590	T3II-5-14-C14	Tefzel 500AE, 5 mil	Discolored, contaminated (particle)
591	T3II-5-15-C15	Polycarbonate, 5 mil	Discolored
592	T3II-5-16-C16	Polyphenylsulfone R-5000, 10 mil, Union Carbide	Discolored
593	T3II-5-17-B1	Optical Solar Reflector, OCLI SI-100	Discolored, contaminated (particle), corroded
594	T3II-5-18-B2	Optical Solar Reflector, OCLI SI-100 with conductive coating	Discolored, corroded
595	T3II-5-19-A1	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al, General Electric	Discolored
596	T3II-5-20-A2	Indium-Tin oxide/Teflon FEP/Inconel, 5 mil, Sheldahl	Discolored, microfractured
597	T3II-5-21-A3	Porcelain enamel on Al, NASA Marshall Space Flight Center	Discolored
598	T3II-5-22-A4	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	Discolored
599	T3II-5-23-A5	Black paint, D111, IITRI	Crazed, contaminated (particle)

DB#	Sample ID	Description	Post-Flight Condition
600	T311-5-24-A6	7 μ m quartz labric chemical and heat cleaned (+ 450°C), adhesive bond/Al, General Electric	Discolored
601	T311-5-25-A7	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	Hazed, buckled
602	T311-5-26-A8	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	Hazed
603	T311-5-27-A9	In2O3/Teflon FEP/Ag/Inconel, 5 mil, General Electric	Hazed, crazed
604	T311-5-28-A10	Kapton/Al, 1 mil, Sheldahl	Darkened, contaminated (stain)
605	T311-5-29-A11	Kapton/Al, 5 mil, Sheldahl	Contaminated (stain)
606	T311-5-30-A12	In2O3/Kapton/Al, 5 mil, General Electric	Contaminated (stain)
607	T311-5-31-A13	White paint, Z93, IITRI	Discolored, crystallized
608	T311-5-32-A14	White paint, S13GLO, IITRI	Discolored (+)
609	T311-5-33-A15	White paint, YB-71, IITRI	Discolored (-), crystallized
610	T311-5-34-A16	White paint, NS 43G, NASA Goddard Space Flight Center	Discolored (+), crystallized
611	T311-5-35-A17	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+)
612	T311-5-36-B3	Au mirror/Al	Darkened
613	T311-5-37-B4	Al mirror/glass	Discolored
614	T311-5-38-B5	Ag mirror/Al	Discolored, cratered
615	T311-5-39-B6	Ag mirror/Al	Corroded, contaminated (stain)
616	T311-5-40-A18	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+)
617	T311-5-41-A19	White paint, PV100, TiO2/silicone resin, ML101, Air Force Materials Laboratory	Discolored, crazed, contaminated (particle)
618	T311-5-42-A20	White paint, TiO2/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+), contaminated (particle)
619	T311-5-43-A21	White paint, DC92-007, TiO2/RTV 3140, Rockwell Int.	Discolored, wrinkled, crazed
620	T311-5-44-A22	White paint, DC92-007, TiO2/RTV 3140, Rockwell Int.	Discolored, wrinkled, contaminated (particle)
621	T311-14-45-03	Coated quartz crystal microbalance (OCM) - active, 150A In2O3/9000A Al+Al2O3	Discolored, contaminated (stain)
622	T311-14-46-04	Coated quartz crystal microbalance (OCM) - passive, 150A ZnS/9000A Al+Al2O3	Contaminated (particle)
623	T311-12-47-4	Thermoluminescent dosimeter, LiF	Buckled, contaminated (particle)
624	T311-11-48-BG06	Low scatter black glass	Bleached, cratered
625	T311-11-49-S06	Aluminized fused silica mirror	Hazed
626	T311-11-50-N03	Low scatter nickel mirror	Contaminated (particle, stain)
627	T311-6-51-III	Ag/Teflon FEP covered cassette containing 11 sun pumped laser coatings	Cover: roughened, discolored
628	T311-6-52-IA&B	Ag/Teflon FEP covered cassette holding 26 laser communication coatings and optical materials	Cover: roughened, discolored
629	T311-1-53-A7	WO3 (UV treated)/polyurethane/Al substrate	Discolored
630	T311-1-54-B7	WO3 (UV treated)/IR dye/Al substrate	Discolored
631	T311-1-55-C7	WO3 (UV treated)/polyurethane/Al substrate	Discolored
632	T311-7-56-23	Mirror, Al2O3 coating, lambda/2 thick @ 2.7 μ m, CaF2 substrate	Unchanged
633	T311-4-57-3	Solar cell coating	Hazed, microfractured
634	T311-16-58-F	Composite (unknown fiber/matrix)	Contaminated (stain)
635	T311-7-59-2	Al2O3 coating on SiO2 substrate	Microfractured, flaked
636	T311-7-60-4	Si coating on SiO2 substrate	Contaminated (particle)
637	T311-7-61-7	ThF4 coating on SiO2 substrate	Microfractured
638	T311-7-62-8	PbF2 coating on SiO2 substrate	Contaminated (particle)
639	T311-7-63-12	Ac2Se3 coating on SiO2 substrate	Crazed, discolored

DBS	Sample ID	Description	Post-Flight Condition
640	T3II-7-64-11	ZnS coating on SiO2 substrate	Buckled, blistered
641	T3II-15-65-O1	Black chrome coating on molybdenum substrate	Bleached, crazed
642	T3II-15-66-P1	Rhodium foil bonded with DC 6-1104 to aluminum substrate	Discolored (-), cratered
643	T3II-15-67-Q1	Iridium foil bonded with DC 6-1104 to aluminum substrate	Discolored
644	T3II-15-68-R1	Polished molybdenum mirror	Discolored, corroded
645	T3II-15-69-S1	Sputtered black rhodium coating on polished molybdenum substrate	Bleached, contaminated (particle)
646	T3II-15-70-T1	Sputtered black rhodium coating on polished molybdenum substrate	Crazed, flaked
647	T3II-15-71-U1	Sputtered black rhodium coating on polished molybdenum substrate	Crazed, flaked
648	T3II-18-72-V1	Sputtered black rhodium coating on polished molybdenum substrate	Contaminated (stain)
649	T3II-18-73-W	White thermal control paint, YB-71/Al, ITRI	Unchanged
650	T3II-18-74-X	Black thermal control paint, D111/Al, ITRI	Contaminated (particle)
651	T3II-18-75-Y	ZnSe crystal	Contaminated (particle)
652	T3II-16-76-G	Polyphenylquinoxaline (PPO) film on Al	Unchanged
653	T3II-9-1-CM2a	HA-43 polyarylate/ethylene (PAA)/polybenzimidazole fiber (PBI) composite	Discolored
654	T3II-9-2-CM4b	GY70/CE-339, [0](90)2/0]4T, 250°F	Discolored (-), contaminated (stain)
655	T3II-9-3-CM6a	GY70/CE 339, [0]2/(90)2]T, 250°F	Discolored (-)
656	T3II-9-4-CM8b	T50/F263 [0](90)2/0]4T, 350°F	Discolored (-)
657	T3II-9-5-CM10a	T50/F263 [0]2/(90)2]T, 350°F	Discolored
658	T3II-9-6-CM14b	T-50(PAN)/X904B-10[0](90)2/0]4T, 350°F	Discolored
659	T3II-9-7-CM18b	T-50(PAN)/E788[0](90)2/0]4T, 350°F	Discolored (-)
660	T3II-9-8-CM42a	KEVLAR/epoxy K49 fabric/X904B [0]2/(90)2]T, 350°F	Discolored
661	T3II-9-9-CM44b	T50/F263 [0](90)2/0]4T, 250°F	Discolored
662	T3II-9-10-CM30a	Celion 6000/E788[0](90)2/0]4T, 350°F	Discolored
663	T3II-9-11-CM3c	GY70/CE-339[+45/-45/+45]4T, 250°F	Discolored
664	T3II-9-12-CM7c	T50/F263 [+45/(-45)2/+45]4T, 350°F	Discolored
665	T3II-9-13-CM11d	T-50(PAN)/X904B-10[+45/(-45)2/+45]4T, 350°F	Discolored (-)
666	T3II-9-14-CM15b	T-50(PAN)/E788[+45/(-45)2/+45]4T, 350°F	Discolored (-)
667	T3II-9-15-CM19c	T-50(PAN)/E788[+45/(-45)2/+45]4T, 350°F	Discolored (-)
668	T3II-9-16-CM38b	KEVLAR/epoxy K49 fabric/X904B [±45]4S, 350°F	Discolored (+)
669	T3II-9-17-CM45b	T-50/F263 [-45/(-45)2/+45]4T, 300°F	Discolored (+)
670	T3II-9-18-CM31a	Celion 6000/E788[+45/(-45)2/+45]4T, 350°F	Discolored (-)
671	T3II-9-19-AB2-1	HMF 330C/934-2024-HMF 330C/934 (9828), 250°F	Discolored
672	T3II-9-20-AB2-5	HMF 330C/934-2024-HMF 330C/934 (9828), 250°F	Discolored (+)
673	T3II-9-21-AB2-7	HMF 330C/934-2024-HMF 330C/934 (9828), 250°F	Discolored (+)
674	T3II-9-22-AB2-9	HMF 330C/934-2024-HMF 330C/934 (9828), 250°F	Discolored (+)
675	T3II-9-23-CM12b	T-50(PAN)/X904B-10[0]2/(90)2]T, 350°F	Discolored, contaminated (stain), distorted
676	T3II-9-24-CM16b	T-50(PAN)/X904B-10[0]2/(90)2]T, 350°F	Discolored, distorted
677	T3II-9-25-CM20a	T-50(PAN)/E788[0]2/(90)2]T, 350°F	Discolored, distorted
678	T3II-9-26-CM28b	HMS/3501-5A[0]2/(90)2]T, 290°F	Discolored, stained, distorted
679	T3II-9-27-CM46a	T50/F263 [0]2/(90)2]T, 300°F	Discolored (-), distorted

DB#	Sample ID	Description	Post-Flight Condition
680	T3III-9-28-CM32b	Celion 6000/E788[(0)2/(90)2]T, 350°F	Discolored, distorted
681	T3III-9-29-AM1B	Gold plated woven Dacron mesh	Unchanged, discolored (holder)
682	T3III-9-30-AM2c	Gold plated knitted Dacron mesh	Unchanged, discolored (holder)
683	T3III-9-31-AM3c	Plastic-metal mesh laminate	Unchanged, discolored (holder)
684	T3III-9-32-AM4c	Solid plastic-metal laminate	Buckled (-), discolored (holder)
685	T3III-9-33-AM1c	Gold-plated woven Dacron mesh	Unchanged, discolored (holder)
686	T3III-9-34-AM2b	Gold plated knitted Dacron mesh	Buckled, discolored (holder)
687	T3III-9-35-AM3d	Plastic-metal mesh laminate	Buckled (-), discolored (holder)
688	T3III-9-36-AM4a	Solid plastic-metal laminate	Buckled, contaminated (particle), discolored (holder)
689	T3III-3-37-III	Graphite polyimide	Unchanged
690	T3III-3-38-III	Graphite polyimide	Unchanged
691	T3III-3-39-IV	Special carbon/lungsten-bearing resin	Contaminated (stain)
692	T3III-3-40-IV	Special carbon/lungsten-bearing resin	Contaminated (stain)
693	T3III-3-41-IIIa	Aluminum 2024, Al/Cu alloy *	Contaminated (particle)
694	T3III-3-42-IIIa	Aluminum 2024, Al/Cu alloy	Contaminated (particle)
695	T3III-19-43-C-00	Anodized aluminum mounting plate with MOS devices	Contaminated (particle)
695.01	T3III-19-43-C-01	MOS devices	Crazed
695.02	T3III-19-43-C-02	MOS devices	Contaminated (particle)
695.03	T3III-19-43-C-03	MOS devices	Crazed, contaminated (stain)
695.04	T3III-19-43-C-04	MOS devices	Contaminated (particle, stain)
695.05	T3III-19-43-C-05	MOS devices	Contaminated (particle)
695.06	T3III-19-43-C-06	MOS device	Contaminated (particle)
695.07	T3III-19-43-C-07	MOS devices	Contaminated (particle, stain)
695.08	T3III-19-43-C-08	MOS devices	Contaminated (particle, stain)
695.09	T3III-19-43-C-09	MOS Devices	Contaminated (particle, stain)
696	T3III-19-44-D-00	Anodized aluminum mounting plate with GaAs FETs, bulk GaAs	Discolored, contaminated (particle)
696.01	T3III-19-44-D-09	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.02	T3III-19-44-D-10	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.03	T3III-19-44-D-11	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.04	T3III-19-44-D-12	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.05	T3III-19-44-D-13	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.06	T3III-19-44-D-14	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.07	T3III-19-44-D-15	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.08	T3III-19-44-D-16	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.09	T3III-19-44-D-3639C	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
696.1	T3III-19-44-D-3639D	GaAs FETs, bulk GaAs	Contaminated (stain, particle)
697	T3III-3-45-V	Aluminum 6061-T6	Contaminated (stain, particle)
698	T3III-3-46-V	Aluminum 6061-T6	Contaminated (stain, particle)
699	T3III-3-47-VII	Pyrolytic carbon, Pyro-Carb 431	Unchanged
700	T3III-3-48-VII	Pyrolytic carbon, Pyro-Carb 431	Unchanged

DB#	Sample ID	Description	Post-Flight Condition
701	T3III-3-49-I	Tape-wrapped carbon phenolic	Contaminated (stain)
702	T3III-3-50-I	Tape-wrapped carbon phenolic	Contaminated (stain)
703	T3III-3-51-IV	Graphite polysulfone	Contaminated (stain)
704	T3III-3-52-IV	Graphite polysulfone	Contaminated (stain)
705	T3III-3-53-II	Three-dimensional quartz phenolic	Discolored, contaminated (stain)
706	T3III-3-54-II	Three-dimensional quartz phenolic	Discolored, contaminated (stain)
707	T3III-8-55-31	Graphite/polyimide (HTS-2 unidirectional tape/PMR 15 [0°])	Distorted
708	T3III-8-56-11	Graphite/epoxy (T-300 unidirectional tape/Fiberite EA934 epoxy resin [0°])	Discolored
709	T3III-8-57-S15	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Contaminated (stain, particle)
710	T3III-8-58-S3	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Contaminated (particle)
711	T3III-11-59-S03	Aluminized fused silica mirror	Contaminated (particle)
712	T3III-11-60-04	ZnSe infrared plate	Contaminated (particle), holder - distorted
713	T3III-12-61-3	Thermoluminescent dosimeter, LiF	Cratered
714	T3III-11-62-3	Corning 7940 second surface aluminum mirror	Hazed, contaminated (particle)
715	T3III-9-63-CM3d	GY70/CE-339[+45/(-45)2/+45]4T, 250°F	Unchanged
716	T3III-9-64-CM7d	T50/F263[+45/(-45)2/+45]4T, 350°F	Discolored (-)
717	T3III-9-65-CM11a	T-50(PAN)/934[+45/(-45)2/+45]4T, 350°F	Contaminated (stain)
718	T3III-9-66-CM15c	T-50(PAN)/X904B-10[+45/(-45)2/+45]4T	Contaminated (stain)
719	T3III-9-67-CM19d	T-50(PAN)/E788[+45/(-45)2/+45]4T, 350°F	Unchanged
720	T3III-9-68-CM38a	KEVLAR/epoxy K49 fabric/X904B (+45)4S, 350°F	Unchanged
721	T3III-9-69-CM45a	T-50/F263 [+45/(-45)2/+45]4T, 300°F	Contaminated (stain)
722	T3III-9-70-CM31b	Celcon 6000/E788[+45/(-45)2/+45]4T, 350°F	Unchanged
723	T3III-9-71-AB2-11	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Contaminated (stain)
724	T3III-9-72-AB2-12	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Contaminated (stain)
725	T3III-9-73-AB2-13	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (-)
726	T3III-9-74-AB2-14	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Contaminated (stain)
727	T3IV-4-1-2	Standard 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
728	T3IV-4-2-6	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
729	T3IV-4-3-10	Reflective 350 nm coating/CERIA, Delrin retainer, OCLI	Contaminated (particle)
730	T3IV-4-4-14	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
731	T3IV-4-5-18	HEA 3:1 coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
732	T3IV-4-6-22	Mark III D coating/7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
733	T3IV-4-7-26	Mark III E coating/7940 fused silica, Delrin retainer, OCLI	Delaminated, contaminated (particle)
734	T3IV-4-8-30	Contamination coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
735	T3IV-4-9-34	Erosion coating/7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
736	T3IV-4-10-38	Erosion coating/7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
737	T3IV-4-11-42	Mark IV coating/7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
738	T3IV-4-12-46	Contamination coating/7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
739	T3IV-4-13-50	7070 fused silica, Delrin retainer, OCLI	Contaminated (particle)
740	T3IV-4-14-54	7940 fused silica, Delrin retainer, OCLI	Microfractured

DB#	Sample ID	Description	Post-Flight Condition
741	T31V-4-15-58	7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
742	T31V-4-16-62	Ceria, Delrin retainer, OCLI	Microfractured, contaminated (particle)
743	T31V-18-17	White thermal control paint, S13GLO/6061 Al, IITRI	Discolored (+), crazed
744	T31V-18-18	White thermal control paint, S13GLO/6061 Al, IITRI	Discolored (+), crazed
745	T31V-4-19-C	HESP II silicon cells, 5 cell string	Microfractured
746	T31V-4-20-GA2	HESP II GaAs cells, 5 cell string	Discolored
747	T31V-4-21-VJ2	Vertical junction silicon cells, 5 cell string	Microfractured, discolored
748	T31V-4-22-D	High performance silicon cells, 5 cell string	Microfractured, discolored
749	T31V-4-23-X4	Conventional silicon cells, 5 cell string	Debonded, discolored
750	T31V-9-24-CM1a	GY70/CE-339, [(0)16]T, 250°F	Discolored
751	T31V-9-25-CM5b	T50/F263 [(0)16]T, 350°F	Bleached
752	T31V-9-26-CM9b	T-50(PAN)/934 [(0)16]T, 350°F	Discolored
753	T31V-9-27-CM13a	T-50(PAN)/X904B-10 [(0)16]T, 350°F	Discolored
754	T31V-9-28-CM17b	T-50(PAN)/E788 [(0)16]T, 350°F	Discolored
755	T31V-9-29-CM34a	HMF 176/34 (±45)AS, 350°F	Discolored
756	T31V-9-30-CM43b	T-50/F263 [(0)16]T, 300°F	Discolored
757	T31V-9-31-CM29b	Celion 6000/E788 [(0)4]T, 350°F	Discolored, contaminated (particle)
758	T31V-9-32-CM22b	HMF 176/34 fabric [(0)16]T, 350°F	Discolored
759	T31V-9-33-CM41q	HMF 176/34 fabric [(0)2/(90)2]T, 350°F	Discolored
760	T31V-9-34-CM37b	KEVLAR/epoxy K49 fabric/X904B [(0)16]T, 350°F	Discolored
761	T31V-9-35-CM39b	E glass fabric/CE-339 [(0)16]T, 250°F	Discolored, cratered
762	T31V-9-36-TC9	Coated molybdenum foil/1.4μ SiO2	Discolored
763	T31V-9-37-TC9	Coated molybdenum foil/1.4μ SiO2	Cratered
764	T31V-9-38-TC10	Coated molybdenum foil/ P238 filter (Al2O3)	Contaminated (particle)
765	T31V-9-39-TC10	Coated molybdenum foil/ P238 filter (Al2O3)	Discolored, hazed
766	T31V-9-40-TC11	Coated molybdenum foil/ Si3N4	Distorted
767	T31V-9-41-TC11	Coated molybdenum foil/ Si3N4	Distorted
768	T31V-9-42-TC12	Polyurethane white paint, Chemglaze A276/II	Discolored
769	T31V-9-43-TC12	Polyurethane white paint, Chemglaze A276/II	Discolored
770	T31V-9-44-TC13	Polyurethane black paint, Chemglaze Z306	Bleached
771	T31V-9-45-TC13	Polyurethane black paint, Chemglaze Z306	Bleached
772	T31V-9-46-TC5	Teflon FEP polymer coating: Spraylon 7075	Discolored
773	T31V-9-47-TC5	Teflon FEP polymer coating: Spraylon 7075	Discolored
774	T31V-9-48-TC2	Silicone paint: black vacuum distilled RTV 602	Crazed
775	T31V-9-49-TC2	Silicone paint: black vacuum distilled RTV 602	Crazed, cratered
776	T31V-9-50-TC3	White silicone high temperature paint: Sporex AP-101	Discolored, wrinkled
777	T31V-9-51-TC3	White silicone high temperature paint: Sporex AP-101	Discolored, wrinkled
778	T31V-9-52-TC6	Ceramic coating : white borated silica	Discolored, contaminated (particle, stain)
779	T31V-9-53-TC6	Ceramic coating : white borated silica	Discolored, contaminated (particle)
780	T31V-9-54-TC7	Ceramic coating : black borated silica coating	Bleached (-)

DB#	Sample ID	Description	Post-Flight Condition
781	T31V-9-55-TC7	Ceramic coating : black borated silica coating	Bleached (-)
782	T31V-9-56-TC8	Ceramic coating : black HS 4 on LI-900	Roughened, textured
783	T31V-9-57-TC8	Ceramic coating : black HS 4 on LI-900	Roughened, textured
784	T31V-9-58-TC4	Black silicone high temperature paint : SpereX SP-102	Bleached
785	T31V-9-59-TC4	Black silicone high temperature paint : SpereX SP-102	Bleached
786	T31V-9-60-TC1	Teflon FEP polymer coating: Spraylon 7075	Discolored, distorted
787	T31V-9-61-TC1	Teflon FEP polymer coating: Spraylon 7075	Discolored, distorted
788	T31V-8-62-183-4	Thin film solar cell, CuInSe2/CdS	Missing
789	T31V-8-63-8	Thin film solar cell, standard Si	Missing
790	T31V-8-64-7	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Discolored (+)
791	T31V-8-65-9	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Discolored (+)
792	T31V-8-66-11	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	Discolored
793	T31V-8-67-25	Graphite/polysulfone (T-300/ P-1700 polysulfone resin [0°/-90°])	Discolored
794	T31V-8-68-103	Graphite/epoxy (conditioned) (T-300 unidirectional tape/Fiberite EA 934 epoxy resin [0°])	Crazed
795	T31V-15-69-22	Rhodium coated glassy carbon substrate	Hazed, flaked
796	T31V-17-70-T	Thermoluminescent dosimeter, LiF	Unchanged
796.5	T3-V	Various materials, composites and metals	Discolored, cratered
797	T31V-4-71-3	Standard 350nm coating on 7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
798	T31V-4-72-7	Reflective 350nm coating on 7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
799	T31V-4-73-11	Reflective 350nm coating on Ceria, Delrin retainer, OCLI	Hazed, contaminated (particle)
800	T31V-4-74-15	Reflective 350nm coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
801	T31V-4-75-19	HEA coating 3:1 on 7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
802	T31V-4-76-23	Mark III D coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
803	T31V-4-77-27	Mark III E coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
804	T31V-4-78-31	Contamination coating on 7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
805	T31V-4-79-35	Erosion coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, delaminated, contaminated (particle)
806	T31V-4-80-39	Erosion coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
807	T31V-4-81-43	Mark IV coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
808	T31V-4-82-47	Contamination coating on 7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
809	T31V-4-83-51	7070 fused silica, Delrin retainer, OCLI	Hazed, microfractured, contaminated (particle)
810	T31V-4-84-55	7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
811	T31V-4-85-59	7940 fused silica, Delrin retainer, OCLI	Contaminated (particle)
812	T31V-4-86-63	Ceria, Delrin retainer, OCLI	Contaminated (particle)
813	T31V-16-87-A	HA-43 polyarylateylene (PAA)/T300 carbon fabric composite	Crazed
814	T31V-16-88-B	Aerospace polyarylateylene (PAA)/T300 carbon fabric composite	Unchanged
815	T31V-16-89-C	HA-43 polyarylateylene (PAA)/polyphenylquinoxylene (PPQ) blend/T300 carbon fabric composite	Unchanged
816	T31V-16-90-D	HA-43 polyarylateylene/ polyphenylquinoxylene blend/Low temp PAN composite	Unchanged
817	T6III-9-1-TC14-6	LMSC modified Colronics 931 coating on Ta substrate	Contaminated (stain, particle)
818	T6III-9-2-TC15-25	JB-1 black coating on Ta substrate	Crazed, bleached, contaminated (stain)
819	T6III-9-3-TC16-7	Vestiar coating on Al substrate	Discolored (+), crazed (+), flaked

DB#	Sample ID	Description	Post-Flight Condition
820	T6III-9-4-TC17-3	GE-SHC 1010 coating on Al substrate	Discolored (+)
821	T6III-9-5-TC18-3	Tedlar (400BS30W11) bonded to Al with Isolack Y9469	Discolored (+), contaminated (particle)
822	T6III-9-6-TC19-3	Black oxide coating on 304 stainless steel substrate	Bleached, contaminated (stain)
823	T6III-10-7-GL2-2	Graphite/glass: Celion 6000/borosilicate glass	Cracked, contaminated (particle)
824	T6III-10-8-AL8-8	Mirror, GY70/201/2024 clad (0/±60°)s	Unchanged
824.5	T6III-10-9-MG7	VS0054/EZ33A/AZ31B [0/±60°]s	Unchanged
825	T6III-9-9-CM47-3	Strip, P75S/F593	Bleached (-)
826	T6III-9-9-CM47-6	Strip, P75S/F593	Bleached (-)
827	T6III-9-10-CM48-1	Strip, P75S/934	Contaminated (stain)
828	T6III-9-10-CM48-4	Strip, P75S/934	Contaminated (stain)
828.01	T6III-10-10-AL7-6	Strip, GY70/201/2024 clad (0/±60°)s	Unchanged
829	T6III-10-11-MG7-6	Strip, P100/EZ33A/AZ31B (6 ply), epsil. meas., SG20	Contaminated (stain)
830	T6III-10-12-AL7-4	Strip, GY70/201/2024 clad, (0/±60°)s, epsilon meas., SG19	Contaminated (stain, particle)
831.01	T6III-10-13-1	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
831.02	T6III-10-13-2	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
831.03	T6III-10-13-3	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
831.04	T6III-10-13-4	Wire, P100/AZ61Z (Ti + B)	Contaminated (stain)
832.01	T6III-10-13-5	Wire, P55 (TiO2)/6061 Al (Ti + B)	Contaminated (stain)
832.02	T6III-10-13-6	Wire, P55 (TiO2)/6061 Al (Ti + B)	Contaminated (stain)
833.01	T6III-10-13-7	Wire, GY70 (8T)/201	Contaminated (stain)
833.02	T6III-10-13-8	Wire, GY70 (8T)/201	Contaminated (stain)
834.01	T6III-10-13-9	Wire, P55/6061Al (Ti + B)	Contaminated (stain)
834.02	T6III-10-13-10	Wire, P55/6061 (Ti + B)	Contaminated (stain)
835	T6III-10-13-11	Wire, T300/6061Al	Contaminated (stain)
836	T6III-10-14-12	Wire, T300/6061Al	Contaminated (stain)
837.01	T6III-10-14-13	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
837.02	T6III-10-14-14	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
837.03	T6III-10-14-15	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
837.04	T6III-10-14-16	Wire, P100/6061Al (Ti + B)	Contaminated (stain)
838.01	T6III-10-14-17	Wire, P55 (10K) 6061Al	Contaminated (stain)
838.02	T6III-10-14-18	Wire, P55 (10K) 6061Al	Contaminated (stain)
838.03	T6III-10-14-19	Wire, P55 (10K) 6061Al	Contaminated (stain)
838.04	T6III-10-14-20	Wire, P55 (10K) 6061Al	Contaminated (stain)
839.01	T6III-10-14-21	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
839.02	T6III-10-14-22	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
840	T6III-10-15-AL3-12	Strip, GY70/201/2024 clad, (0) epsil. meas., SG18	Contaminated (stain)
841	T6III-10-16-AL14-11	Strip, P55/6061/6061Al, (0) epsil. meas., SG17, CTS1	Contaminated (stain)
842	T6III-10-17-AL15-4	Strip, P55/6061/6061Al, (90) epsil. meas., SG16	Contaminated (stain)
843	T6III-10-18-AL4-3	Strip, GY70/201/2024 clad, (90)	Contaminated (stain)
844	T6III-10-19-AL4-4	Strip, GY70/201/2024 clad, (90)	Contaminated (stain)

D8s	Sample ID	Description	Pest-Flight Condition
845	T6III-10-20-AL3-5	Strip, GY70/201/2024 clad, (0)	Contaminated (stain)
846	T6III-10-21-AL5-5	Strip, GY70/201/2024 clad, (0)	Contaminated (stain)
847	T6III-10-22-AL5-11	Strip, GY70/201/2024 clad, (0)	Contaminated (stain)
848	T6III-10-23-AL5-12	Strip, GY70/201/2024 clad, (0)	Contaminated (stain)
849	T6III-10-24-EP1-4	Strip, GY70/X-30 (0/45/90/135)4	Contaminated (stain)
850	T6III-10-25-MG9-T1	Strip, P100/AZ91C/AZ61A (90)	Distorted, dulled, contaminated (stain)
851	T6III-10-26-P55-3	Riveted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored, cracked, contaminated (stain)
852	T6III-10-27-P55-4	Riveted lap, 722(Graphite/Glass weave)/P1700/TiO2 coating	Discolored (+), cracked, contaminated (stain)
853	T6III-10-28-SS1-9	Strip, Invar LR35	Contaminated (stain)
854	T6III-10-29-EP22-5	Strip, GY70/CE339, (0/45/90/135)S2	Contaminated (stain)
855	T6III-10-30-PS2-5	Strip, W-722(Graphite/Glass fabric)/P1700	Contaminated (stain)
856	T6III-10-31-PS2-6	Strip, W-722(Graphite/Glass fabric)/P1700	Contaminated (stain)
857	T6III-10-32-PS3-3	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored (+), cracked, contaminated (stain), cratered
858	T6III-10-33-PS3-4	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored (+), cracked, contaminated (stain)
859	T6III-10-34-EP3-5	Strip, T300 tape/934 (0)	Contaminated (stain)
860	T6III-9-35-MPS-C-1	Strip, LAC 23-4688, elastomer	Crazed (+), distorted (+), buckled
861	T6III-10-36-EP3-6	Strip, T300 tape/934 (0)	Contaminated (stain)
862 01	T6III-10-37-23	Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
863 02	T6III-10-37-24	Wire, P55 (10K) AZ91C	Contaminated (stain)
863 03	T6III-10-37-25	Wire, P55 (10K) AZ91C	Contaminated (stain)
863 04	T6III-10-37-26	Wire, P55 (10K) AZ91C	Contaminated (stain)
864 01	T6III-10-38-27	Wire, SiC/6061Al	Contaminated (stain)
864 02	T6III-10-38-28	Wire, SiC/6061Al	Distorted, contaminated (stain)
864 03	T6III-10-38-29	Wire, SiC/6061Al	Contaminated (stain)
864 04	T6III-10-38-30	Wire, SiC/6061Al	Contaminated (stain)
864 05	T6III-10-38-31	Wire, SiC/6061Al	Contaminated (stain)
864 06	T6III-10-38-32	Wire, SiC/6061Al	Contaminated (stain)
864 07	T6III-10-38-33	Wire, SiC/6061Al	Contaminated (stain)
864 08	T6III-10-38-34	Wire, SiC/6061Al	Contaminated (stain)
864 09	T6III-10-38-35	Wire, SiC/6061Al	Contaminated (stain)
864 1	T6III-10-38-36	Wire, SiC/6061Al	Contaminated (stain)
864 11	T6III-10-38-37	Wire, SiC/6061Al	Contaminated (stain)
864 12	T6III-10-38-38	Wire, SiC/6061Al	Contaminated (stain)
864 13	T6III-10-38-39	Wire, SiC/6061Al	Contaminated (stain)
864 14	T6III-10-38-40	Wire, SiC/6061Al	Contaminated (stain)
864 15	T6III-10-38-41	Wire, SiC/6061Al	Contaminated (stain)
864 16	T6III-10-38-42	Wire, SiC/6061Al	Contaminated (stain)
864 17	T6III-10-38-43	Wire, SiC/6061Al	Contaminated (stain)
864 18	T6III-10-38-44	Wire, SiC/6061Al	Contaminated (stain)
865	T6III-10-39-AL15-13	Strip, VSB32/6061-T6/6061 Al clad, (90), epsl. meas., SG15	Contaminated (stain)

DB#	Sample ID	Description	Post-Flight Condition
866	T6III-10-40-SS1-2	Strip, Invar LR35, epsl. meas., SG14	Contaminated (stain)
867	T6III-10-41-SS1-4	Strip, Invar LR35, epsl. meas., SG13, CTS-2	Contaminated (stain)
868	T6III-10-42-AL12-7	Strip, VSB32/6061-T6/6061 Al clad (0)	Contaminated (stain)
869	T6III-10-43-AL12-8	Strip, VSB32/6061-T6/6061 Al clad (0)	Contaminated (stain)
870	T6III-10-44-AL12-9	Strip, VSB32/6061-T6/6061 Al clad (0)	Contaminated (stain)
871	T6III-10-45-MG9-T3	Strip, P100/AZ91C/AZ61A (90)	Distorted, dulled, contaminated (stain)
872	T6III-10-46-AL3-6	Strip, GY70/201/2024 clad, (0)	Contaminated (stain)
873	T6III-10-47-MG5-13	Strip, VS0054/EZ33A/AZ31B, clad (0)	Distorted, dulled, contaminated (stain)
874	T6III-10-48-PS3-6	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored (+), crazed, contaminated (stain)
875	T6III-10-49-PS4-2	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Discolored (+), crazed, contaminated (stain)
876	T6III-10-50-PS5-6	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored, crazed, contaminated (stain)
877	T6III-10-51-PS6-2	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Discolored, crazed, contaminated (stain)
878	T6III-10-52-PS4-5	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Discolored, crazed
879	T6III-10-53-PS4-6	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	Discolored (+), crazed, contaminated (stain)
880	T6III-10-54-GL1-2	Strip, graphite/glass: Celson 6000/borosilicate glass	Unchanged
881	T6III-10-55-EP12-3	Strip, P75S/934, (0/45/90/135)S2	Contaminated (stain)
882	T6III-10-56-EP12-4	Strip, P75S/934, (0/45/90/135)S2	Contaminated (stain)
883	T6III-10-57-EP4-6	Strip, AS/3501-6 (0)	Discolored
884	T6III-10-58-EP4-7	Strip, AS/3501-6 (0)	Discolored
885	T6III-9-59-S0-J	Strip, Soldal J coating: (A, DC93-500/ B, R-2500)	Crazed, discolored, contaminated (stain), cratered
887	T6III-9-61-S0-C	Strip, Soldal C coating, (A, Electrodag 502/ B, Electrodag 501)	Discolored, contaminated (stain)
889	T6III-10-63-EP3-2	Strip, T300 tape/934, epsl. meas., SG12, CTS 13	Discolored
890	T6III-10-64-EP4-	Strip, AS/3501-6, epsl. meas., SG11	Contaminated (stain)
891	T6III-10-65-PI5-3	Strip, T300/V378A (0/45/90/135)S2, epsl. meas., SG10	Contaminated (stain)
892	T6III-10-66-PS1-2	Strip, T300/P1700 (0/90), epsl. meas., SG9	Discolored
893	T6III-10-67-PI2-2	Strip, graphite/LARC 160, epsl. meas., SG8	Contaminated (stain)
894	T6III-10-68-EP1-3	Strip, GY70/X-30 (0/45/90/135)S2, epsl. meas., SG7	Contaminated (stain)
895	T6III-10-69-MG9-L6	Strip, P100/AZ91C/AZ61A (0)	Distorted, dulled
896	T6III-10-70-MG4-3	Strip, VS0054/EZ33A/AZ31B, (90)	Distorted, contaminated (stain)
897	T6III-10-71-MG4-14	Strip, VS0054/EZ33A/AZ31B, (90)	Contaminated (stain)
898	T6III-10-72-PI1-6	Strip, Celson 6000/PMR-15, epsl. meas., SG3	Contaminated (stain)
899	T6III-10-73-PS11-2	Strip, T300/polyether sulfone, epsl. meas., SG2	Discolored
900	T6III-10-74-MG5-22	Strip, VS0054/EZ33A/AZ31B clad, (0), epsl. meas., SG1	Contaminated (stain)
901	T6III-10-75-MG9-L7	Strip, P100/AZ91C/AZ61A (0*)	Distorted, contaminated (stain)
902	T6III-10-76-EP13-4	Strip, GY70/934 (0/45/90/135)S2	Contaminated (stain)
903	T6III-10-77-EP15-2	Strip, T300 fiber/5208/ZnO coating	Discolored (+)
904	T6III-10-78-EP14-1	Strip, T300 fiber/5208/W-Al flake coating	Contaminated (stain)
905	T6III-10-79-AL6-3	Strip, GY70/201/2024, clad (90)	Discolored
906	T6III-10-80-EP10-2	Strip, E-glass 120 fabric/X904B, (0)	Contaminated (stain)
907	T6III-10-81-PS6-5	Rivoted lap, W-722 Graphite/Glass fabric/P1700/ZnO coating	Discolored (+)

DB#	Sample ID	Description	Post-Flight Condition
908	T6III-10-82-PS6-6	Revoted lap, W-722 Graphite/Glass fabric/P1700/ZnO coating	Discolored (+), contaminated (stain)
909	T6III-10-83-EP5-2	Strip, GY70/X904B, (0)	Bleached
910	T6III-10-84-EP6-2	Strip, GY70/X904B, (0/90/90/0)	Contaminated (stain)
911	T6III-9-85-MPS-C-2	Strip, LAC 23-4688, elastomer	Crazed (+), distorted (+), outgassed (+)
912	T6III-10-86-EP7-2	Strip, GY70/X904B [+45/(-45)2/+45]4T	Contaminated (stain), cratered
913	T6III-10-87-EP22-2	Strip, GY70/CE-339 (0/45/90/135)S2	Contaminated (stain)
914	T6III-10-88-AL14-16	Strip, VSB32/6061-T6/6061 Al clad, (0)	Unchanged
915	T6III-10-89-P11-5	Strip, Celson 6000/PMR-15 (0)	Contaminated (stain)
916	T6III-10-90-P12-4	Strip, T300/V378A-160	Contaminated (stain)
917	T6III-10-91-PS1-4	Strip, T300 fabric/P1700, (0.90)	Contaminated (stain), crazed
918	T6III-10-92-MG6-3	Strip, VS0054/EZ33A/AZ31B clad, (90)	Distorted, contaminated (stain)
919	T6III-10-93-AL31-3	Strip, SiC whiskers/6061Al	Contaminated (stain, particle)
920	T6III-10-94-AL30-1	Strip, SiC whiskers/2124 Al	Contaminated (stain, particle)
921	T6III-10-95-AL6-7	Strip, GY70/201/2024 clad, (90)	Distorted, contaminated (stain)
922	T6III-10-96-AL14-4	Strip, VSB32/6061-T6/6061 Al clad, (0)	Contaminated (stain)
923	T6III-10-97-AL32-6	Strip, SiC fiber, SC S2/Al	Contaminated (stain)
924	T6III-10-98-PS13-1	Strip, T300/polyether sulfone/ZnO coating	Discolored (+), contaminated (particle)
925	T6III-10-99-PS13-2	Strip, T300/polyether sulfone/ZnO coating	Discolored (+), contaminated (particle)
926	T6III-10-100-MG3-18	Strip, VS0045/EZ33A/AZ31B, clad (0) epsilon meas., SG6, CTS 4	Contaminated (stain)
927	T6III-10-101-PS2-2	Strip, W-722 (Graphite/Glass fabric)/P1700 epsilon meas., SG5	Discolored, contaminated (stain), crazed
928	T6III-10-102-EP22-8	Strip, GY70/CE339 (0/45/90/135)S2 epsilon meas., SG4	Bleached
929	T6III-10-103-MG5-3	Strip, VS0054/EZ33A/AZ31B clad, (0)	Distorted, contaminated (stain)
930	T6III-10-104-EP13-3	Strip, GY70/934 (0/45/90/135)S2	Contaminated (stain)
931	T6III-9-105-MPS-C-4	Strip, LAC23-4688, elastomer	Crazed (+), distorted (+), outgassed (+)
932	T6III-10-106-AL32-7	Strip, SiC fiber, SC S2/Al	Contaminated (stain)
933	T6III-10-107-PS14-1	Strip, T300/polyether sulfone/TiO2 coating	Contaminated (stain)
934	T6III-10-108-PS12-1	Strip, T300/polyether sulfone/with leaing Al coating	Discolored (+)
935	T6III-10-109-EP2-5	Strip, GY70/X-30[0/45/90/135]S2, Sn-In Eutectic coating	Contaminated (stain)
936	T6III-10-110-AL33-1	Strip, P100/201/2024 Al (+20°/-20°)S	Contaminated (stain)
937	T6III-10-111-AL33-8	Strip, P100/201/2024 Al (+20°/-20°)S	Contaminated (stain)
938	T6III-10-112-MG10-4	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Contaminated (stain)
939	T6III-10-113-MG10-6	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	Dulled, discolored
940	T6III-10-114-EP21-3	Strip, P75S/CE-339, (0/45/90/135)S4	Dulled, cratered
941	T6III-10-115-EP21-4	Strip, P75S/CE-339, (0/45/90/135)S4	Contaminated (stain)
942	T6III-9-116-WI	Coated wire, MIL-W-22759/32	Discolored
943	T6III-10-117-PI5-5	Strip, T300/V378A, (0/45/90/135)S2	Discolored (+), cracked
944	T6III-10-118-PI5-6	Strip, T300/V378A, (0/45/90/135)S2	Contaminated (stain)
945	T6III-10-119-PS1-10	Strip, T300 fabric/P1700, (0.90)	Contaminated (stain)
946	T6III-9-120-SO-Q	Strip, Soldal Q coating: (A, DC93-500/ B, R-2501)	Discolored
948	T6III-10-122-PI4	Strip, Celson 6000/polyimide	Crazed, discolored, contaminated (stain)
			Contaminated (stain)

DB#	Sample ID	Description	Post-Flight Condition
949	T6III-9-123-TC14-9	LMSC modified Corionics 931 coating on Ta substrate	Unchanged
950	T6III-9-124-TC15-29	JB-1 black coating on Ta substrate	Crazed
951	T6III-9-125-TC16-8	Vestlar coating on Al substrate	Crazed, flaked
952	T6III-9-126-TC17-5	GE-SHC 1010 coating on Al substrate	Unchanged
953	T6III-9-127-TC18-4	Tedlar (4008S30W11) bonded to Al with Isolack Y9469	Contaminated (particle)
954	T6III-9-128-TC19-4	Black oxide coating on 304 stainless steel substrate	Unchanged
955	T6III-10-129-AL8-3	Mirror, GY70/201/2024 clad, (0/±60°)s	Unchanged
956	T6III-10-130-AL8-5	Mirror, GY70/201/2024 clad, (0/±60°)s	Unchanged
957	T6III-9-131-CM47-1	Srip, P75S/F593, 102-270	Contaminated (stain)
958	T6III-9-131-CM47-4	Srip, P75S/F593, 102-270	Contaminated (stain)
959	T6III-10-131-AL7-3	Srip, GY70/201/2024 clad (0/±60°)s	Contaminated (stain)
960	T6III-9-132-CM48-2	Srip, P75S/934, 102-15A	Contaminated (stain)
961	T6III-9-132-CM48-5	Srip, P75S/934, 102-15A	Contaminated (stain)
962	T6III-10-132-AL7-7	Srip, GY70/201/2024 clad, (0/±60°)s	Contaminated (stain)
963	T6III-10-133-AL7-14	Srip, GY70/201 clad (0/±60°)s	Contaminated (stain)
964	T6III-10-133-AL7-15	Srip, GY70/201 clad (0/±60°)s	Unchanged
965	T6III-10-134-AL7-12	Srip, GY70/201 clad (0/±60°)s	Unchanged
966	T6III-10-134-AL7-13	Srip, GY70/201 clad (0/±60°)s	Unchanged
967	T6III-10-135-1	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
968	T6III-10-135-2	Wire, P55 (TiO2)/6061 Al (Ti + B)	Unchanged
969	T6III-10-135-3	Wire, GY70 (8T)/201	Unchanged
970	T6III-10-135-4	Wire, P55/6061 Al (Ti + B)	Unchanged
971	T6III-10-135-5	Wire, T300/6061Al	Unchanged
972	T6III-10-135-6	Wire, P100/6061 Al (Ti + B)	Unchanged
973	T6III-10-135-7	Wire, P55 (10K)/6061Al	Unchanged
974	T6III-10-135-8	Wire, P100/AZ31B (Ti + B)	Unchanged
975	T6III-10-135-9	Wire, P55 (10K)/AZ91C	Contaminated (stain)
976	T6III-10-135-10	Wire, SiC/6061Al	Contaminated (particle)
977.01	T6III-10-136-11	Wire, SiC/6061Al	Unchanged
977.02	T6III-10-136-12	Wire, SiC/6061Al	Unchanged
977.03	T6III-10-136-13	Wire, SiC/6061Al	Unchanged
977.04	T6III-10-136-14	Wire, SiC/6061Al	Unchanged
978	T6III-10-137-AL3-10	Srip, GY70/201/2024 clad, (0)	Contaminated (stain)
979	T6III-10-138-AL3-11	Srip, GY70/201/2024 clad, (0)	Distorted
980	T6III-10-139-AL3-13	Srip, GY70/201/2024 clad, (0)	Unchanged
981	T6III-10-140-AL4-7	Srip, GY70/201/2024 clad, (90)	Unchanged
982	T6III-10-141-AL4-8	Srip, GY70/201/2024 clad, (90)	Unchanged
983	T6III-9-142-MPS-C-5	Srip, LAC 23-4688, elastomer	Distorted, contaminated (particle)
984	T6III-10-143-AL5-6	Srip, GY70/201/2024 clad, (0)	Unchanged
985	T6III-10-144-AL5-13	Srip, GY70/201/2024 clad, (0)	Unchanged

DB#	Sample ID	Description	Post-Flight Condition
986	T6III-10-145-AL5-14 Strip, GY70/201/2024 clad, (0)		Unchanged
987	T6III-10-146-EP1-7 Strip, GY70/X-30 (0/45/90/135)4		Unchanged
988	T6III-10-147-EP1-8 Strip, GY70/X-30 (0/45/90/135)4		Contaminated (stain)
989	T6III-10-148-PS5-8 Rivoted lap, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating		Discolored (-), cracked
990	T6III-9-149-MPS-C-6 Strip, LAC 23-4688, elastomer		Distorted, contaminated (particle)
991	T6III-10-150-SS1-10 Strip, Invar LR35		Distorted
992	T6III-10-151-PS2-10 Strip, W-722 (Graphite/Glass fabric)/P1700		Contaminated (stain)
998	T6III-10-152-PS2-11 Strip, W-722 (Graphite/Glass fabric)/P1700		Discolored, contaminated (stain)
994	T6III-10-153-PS2-12 Strip, W-722 (Graphite/Glass fabric)/P1700		Discolored
995	T6III-10-154-PS3-10 Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating		Contaminated (stain), cracked
996	T6III-10-155-PS3-11 Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating		Discolored, cracked
997	T6III-10-156-EP3-10 Strip, T300 tape/934 (0)		Unchanged
998	T6III-10-157-EP3-11 Strip, T300 tape/934 (0)		Contaminated (stain)
999	T6III-10-158-EP3-12 Strip, T300 tape/934 (0)		Contaminated (stain)
1002	T6III-10-161-AL6-4 Strip, GY70/201/2024 clad, (90)		Unchanged
1003	T6III-10-162-AL6-8 Strip, GY70/201/2024 clad, (90)		Unchanged
1004	T6III-9-163-MPS-C-8 Strip, LAC 23-4688, elastomer		Unchanged
1005	T6III-10-164-AL12-11 Strip, VSB32/6061-T6/6061 Al (0)		Unchanged
1006	T6III-10-165-AL12-1 Strip, VSB32/6061-T6/6061 Al (0)		Unchanged
1007	T6III-10-166-AL12-11 Strip, VSB32/6061-T6/6061 Al (0)		Unchanged
1008	T6III-10-167-GL3-3 Strip, graphite/glass: Celson 6000/borosilicate glass		Unchanged
1009	T6III-9-168-SO-D Strip, Soldal D coating: (A, Electrodag 502/ B, Electrodag 501)		Unchanged
1011	T6III-10-170-PS3-12 Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating		Discolored, cracked
1012	T6III-10-171-PS4-10 Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating		Contaminated (stain), cracked
1013	T6III-10-172-MG5-14 Strip, VS0054/EZ33/AZ31B clad (0)		Distorted, dulled
1014	T6III-10-173-PS6-8 Rivoted lap W-722 (Graphite/Glass fabric)/P1700, ZnO coating		Contaminated (stain), cracked
1015	T6III-10-174-PS4-11 Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating		Contaminated (stain)
1016	T6III-10-175-PS4-12 Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating		Contaminated (stain)
1017	T6III-10-176-PS1-8 Strip, T300/P1700 (0/90)		Unchanged
1018	T6III-10-177-EP12-7 Strip, P75S/934, (0/45/90/135)S2		Unchanged
1019	T6III-10-178-EP12-8 Strip, P75S/934, (0/45/90/135)S2		Contaminated (stain)
1020	T6III-10-179-EP4-11 Strip, AS/3501-6 (0)		Unchanged
1021	T6III-10-180-EP4-12 Strip, AS/3501-6 (0)		Unchanged
1022	T6III-10-181-EP4-13 Strip, AS/3501-6 (0)		Contaminated (stain)
1023	T6III-10-182-P11-10 Strip, Celson 6000/PMR-15 (0)		Contaminated (stain)
1024	T6III-10-183-AL14-11 Strip, VSB32/6061-T6/6061 Al clad, (0)		Unchanged
1025	T6III-10-184-AL14-3 Strip, VSB32/6061-T6/6061 Al clad, (0)		Unchanged
1026	T6III-10-185-AL14-11 Strip, VSB32/6061-T6/6061 Al clad, (0)		Unchanged
1027	T6III-10-186-AL15-5 Strip, VSB32/6061-T6/6061 Al clad, (90)		Unchanged
1028	T6III-10-187-AL15-11 Strip, VSB32/6061-T6/6061 Al clad, (90)		Unchanged

DB#	Sample ID	Description	Post-Flight Condition
1029	T6III-10-188-EP22-4 Strip, GY70/CE-339 (0/45/90/135)S2		Contaminated (particle)
1030	T6III-10-189-MG3 Strip, VS0054/EZ33A/AZ31B, (0)		Contaminated (stain)
1031	T6III-10-190-MG3 Strip, VS0054/EZ33A/AZ31B, (0)		Unchanged
1032	T6III-10-191-MG3 Strip, VS0054/EZ33A/AZ31B, (0)		Unchanged
1033	T6III-10-192-MG9-L4 Strip, P100/AZ91C/AZ61A (0)		Dulled
1034	T6III-10-193-MG9-L8 Strip, P100/AZ91C/AZ61A (0)		Dulled
1035	T6III-10-194-EP13-7 Strip, GY70/934 (0/45/90/135)S2		Contaminated (stain)
1036	T6III-10-195-MG5-4 Strip, VS0054/EZ33A/AZ31B clad (0)		Dulled
1037	T6III-10-196-MG5-21 Strip, VS0054/EZ33A/AZ31B clad (0)		Contaminated (stain)
1038	T6III-10-197-MG5-10 Strip, VS0054/EZ33A/AZ31B clad (0)		Unchanged
1039	T6III-10-198-EP13-8 Strip, GY70/934 (0/45/90/135)S2		Contaminated (stain)
1040	T6III-10-199-EP18-1 Strip, T300/2 mil-3M 113 viscoelastic tape/5208		Contaminated (stain)
1041	T6III-10-200-EP19-1 Strip, T300/2 mil-3M 113 viscoelastic tape/5208		Contaminated (stain)
1042	T6III-10-201-EP20-1 Strip, T300/2 mil-3M 113 viscoelastic tape/5208		Contaminated (stain)
1043	T6III-10-202-EP10-4 Strip, E-glass 120 Fabric/X904B, (0)		Unchanged
1044	T6III-10-203-EP5-4 Strip, GY70/X904B (0)		Unchanged
1045	T6III-10-204-EP6-4 Strip, GY70/X904B (0/90/90/0)		Unchanged
1046	T6III-10-205-EP7-4 Strip, GY70/X904B, (0)		Unchanged
1047	T6III-10-206-P11-11 Strip, Celion 6000/PMR-15 (0)		Unchanged
1048	T6III-10-207-P11-12 Strip, Celion 6000/PMR-15 (0)		Unchanged
1049	T6III-10-208-PS1-7 Strip, T300/P1700 (0/90)		Unchanged
1050	T6III-10-209-AL30-3 Strip, SiC whiskers/2124 Al		Unchanged
1054	T6III-9-213-W2 Coated wire, MIL-W-22759/32		Contaminated (stain), contaminated (particle)
1055	T6III-10-214-MG6-4 Strip, VS0054/EZ33A/AZ31B clad, (90)		Unchanged
1056	T6III-10-215-MG9-T7 Strip, P100/AZ91C/AZ61A (90)		Dulled
1057	T6III-10-216-MG9-T5 Strip, P100/AZ91C/AZ61A (90)		Dulled
1058	T6III-9-217-S0-K Strip, Soldal K coating: (A, DC93-500/ B, R-2501)		Contaminated (particle)
1060	T6III-10-219-AL31-4 Strip, SiC whiskers/6061Al		Contaminated (stain)
1061	T6III-9-220-S0-R Strip, Soldal R coating: (A, DC93-500/ B, R-2501)		Contaminated (particle)
1063	T6III-10-222-EP2-6 Strip, GY70/X-30/Sn-In eut. (0/45/90/135)4		Contaminated (stain)
1064	T6III-10-223-EP22-6 Strip, GY70/CE-339 (0/45/90/135)S2		Contaminated (particle)
1065	T6III-10-224-EP22-11 Strip, GY70/CE-339 (0/45/90/135)S2		Unchanged
1066	T6III-10-225-MG10-3 Strip, P100/AZ91C/AZ61A (+10°/-10°)S		Dulled
1067	T6III-10-226-MG10-8 Strip, P100/AZ91C/AZ61A (+10°/-10°)S		Dulled
1068	T6III-10-227-AL33-5 Strip, P100/201/2024 Al (+20°/-20°)S		Unchanged
1069	T6III-10-228-AL33-7 Strip, P100/201/2024 Al (+20°/-20°)S		Unchanged
1070	T6III-10-229-PS14-2 Strip, T300/polyether sulfone/TiO2 coating		Contaminated (stain)
1071	T6III-10-230-PS12-2 Strip, T300/polyether sulfone/with lealing Al coating		Unchanged
1072	T6III-10-231-EP21-7 Strip, P755/CE-339, (0/45/90/135)S4		Unchanged
1073	T6III-10-232-EP21-8 Strip, P755/CE-339, (0/45/90/135)S4		Unchanged

DB#	Sample ID	Description	Post-Flight Condition
1074	T6III-10-233-PI5-10	Strip, Celion 6000/PMR-15, (0)	Unchanged
1075	T6III-10-234-PI5-11	Strip, T300/V378A (0/45/90/135)S2	Unchanged
1076	T6III-10-235-PI5-12	Strip, T300/V378A, (0/45/90/135)S2	Unchanged
1077	T6III-10-236-PI5-12	Strip, T300/P1700, (0/90)	Unchanged
1078	T6III-10-237-PI2-8	Strip, graphite/LARC 160	Unchanged
1079	T6III-10-238-PI2-9	Strip, graphite/LARC 160	Unchanged
1080	T6III-10-239-PI2-10	Strip, graphite/LARC 160	Unchanged
1081	T6III-10-240-AL32-3	Strip, SiC fiber, SC S2/AI	Unchanged
1082	T6III-10-244-AL32-5	Strip, SiC fiber, SC S2/AI	Unchanged
1086	T6VI-5-1-A20	White paint TiO2/RTV 602, ML101, Air Force Materials Laboratory	Discolored (-), contaminated (particle)
1087	T6VI-5-2-A18	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (-)
1088	T6VI-5-3-A16	White paint, NS 43G, NASA Goddard Space Flight Center	Discolored (-), crazed, contaminated (particle)
1089	T6VI-5-4-B5	Ag mirror/AI	Corroded (+)
1090	T6VI-5-5-A14	White paint, S13GLO, IITRI	Discolored (-), contaminated (particle)
1091	T6VI-5-6-A11	Kapton/AI, 5 mil, Sheldahl	Discolored (-), contaminated (particle)
1092	T6VI-5-7-A7	Teflon FEP/Ag/inconel, 2 mil, Sheldahl	Unchanged
1093	T6VI-5-8-A1	Quartz fabric 581 (Astroquartz)/Teflon FEP/AI General Electric	Hazed
1094	T6VI-5-9-A21	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int	Discolored (-)
1095	T6VI-5-10-A19	White paint, PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	Discolored (-), contaminated (particle) (-), wrinkled
1096	T6VI-5-11-A17	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	Discolored (-), contaminated (particle)
1097	T6VI-5-12-A15	White paint, YB-71, IITRI	Discolored (-)
1098	T6VI-5-13-A13	White paint, Z93, IITRI	Crystallized
1099	T6VI-5-14-A8	Teflon FEP/Ag/inconel, 5 mil, Sheldahl	Unchanged
1100	T6VI-5-15-A6	7µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond, General Electric	Roughened
1101	T6VI-5-16-B4	Al mirror/glass	Discolored
1102	T6VI-5-17-B2	Optical Solar Reflector, OCLI SI-100 with conductive coating	Microfractured
1103	T6VI-5-18-B1	Optical Solar Reflector, OCLI SI-100	Corroded
1104	T6VI-5-19-B3	Au mirror/AI	Corroded
1105	T6VI-13-20-A	Ag/Teflon FEP-covered aperture plate on cassette containing 25 optical samples	Contaminated (stain)
105 01	T6VI-13-20-01A	Flexible reflector : Denton silver/ AI	Cover: hazed, discolored (-)
105 02	T6VI-13-20-02A	Reflective ML1 retainer: Al2O3(0.3255µm) / Ag(0.2µm) / Al2O3 (0.0245µm) / VESPEL	Unchanged
105 03	T6VI-13-20-03A	Flat solar reflector: Leafing AI paint (polysilicate binder)/ AI	Unchanged
105 04	T6VI-13-20-04A	Flat solar reflector: Barrier anodize/ AI	Hazed (-)
105 05	T6VI-13-20-05A	Flexible reflector: Al2O3(0.3255 µm)/ Ag(0.2µm)/Al2O3(0.0323 µm)/ 2 mil Kapton	Microfractured
105 06	T6VI-13-20-06A	Flexible reflector: Al2O3 (0.3255 µm)/Ag (0.2µ m)/ Al2O3 (0.0323 µm)/ AI foil	Unchanged
105 07	T6VI-13-20-07A	Ceramic ML1 retainer: MACOR	Unchanged
105 08	T6VI-13-20-08A	Radiator coating: Boron nitride, grade HP	Unchanged
105 09	T6VI-13-20-09A	Radiator coating: BaF2/Ag/AI	Microfractured, chipped
1105 1	T6VI-13 20-10A	Flexible mirror: Dielectric Stack, Al2O3/Ag/Kapton	Microfractured
105 11	T6VI-13-20-11A	Solar absorber: Black chrome on nickel foil	Unchanged

DB#	Sample ID	Description	Post-Flight Condition
1105 12	T6VI-13-20-12A	Wide band reflective stack	Cratered
1105 13	T6VI-13-20-13A	Thermal switch (non-linear): Non-Linear material/Ge	Unchanged
1105 14	T6VI-13-20-14A	Absorptive stack: Dielectric stack/SiO2/Al2O3/Ni-Au/ Be	Unchanged
1105 15	T6VI-13-20-15A	Non-linear material: VO2/BaF2 , Honeywell	Hazed
1105 16	T6VI-13-20-16A	Sapphire second surface mirror	Contaminated (particle)
1105 17	T6VI-13-20-17A	Sapphire cover slip	Microfractured (-)
1105 18	T6VI-13-20-18A	Reflective/transmissive filter: ZnS/SiF2/IrO/SiO2	Hazed
1105 19	T6VI-13-20-19A	Scanning horizon sensor: Dielectric stack/ Ge	Contaminated (particle)
1105 2	T6VI-13-20-20A	Staring horizon sensor: Dielectric Stack/ZnSe/Dielectric stack	Contaminated (particle)
1105 21	T6VI-13-20-21A	Graphite polyimide/Fiberfrax paper/Astroquartz 550/Astroquartz 581	Unchanged
1105 22	T6VI-13-20-22A	Graphite polyimide/capacitive grid material/ceramic standoff/Astroquartz 581	Discolored (-)
1105 23	T6VI-13-20-23A	ECCOFOAMOG	Unchanged
1105 24	T6VI-13-20-24A	Flexible dielectric stack: dielectric stack/Kapton	Contaminated (particle)
1105 25	T6VI-13-20-25A	Graphite polyimide/Astroquartz 550/BN fabric	Discolored
1106	T6VI-6-21-II	Ag/Teflon FEP covered cassette holding 11 sun pumped laser coatings	Hazed, discolored (-)
1106 01	T6VI-6-21-II-1	Laser rod anti-reflection coating: ZrO2/SiO2 on YAG	Unchanged
1106 02	T6VI-6-21-II-2	Laser mirror high reflectance coating: TiO2/SiO2 on silica	Contaminated (particle)
1106 03	T6VI-6-21-II-3	Lens anti-reflection coating: Yttralox/MgF2 on Silica	Hazed
1106 04	T6VI-6-21-II-4	Telescope/gimbal high reflectance coating: ZnS/ThF4/Ag on silica	Corroded, contaminated (particle)
1106 05	T6VI-6-21-II-5	Telescope/gimbal high reflectance coating: SiO2/Al2O3/Ag on silica	Unchanged
1106 06	T6VI-6-21-II-6	Telescope/gimbal high reflectance coating: SiO2/Ag on Cervi	Unchanged
1106 07	T6VI-6-21-II-7	Solar telescope high reflectance coating: Electroplated Au on NiAl	Unchanged
1106 08	T6VI-6-21-II-8	Solar telescope high reflectance coating: Au/Spinell on NiAl	Corroded (-)
1106 09	T6VI-6-21-II-9	Wide band reflector coating: TiO2/SiO2 on silica	Flaked, contaminated (particle)
1106 1	T6VI-6-21-II-10	Wide band reflector coating: ZrO2/SiO2 on silica	Hazed
1106 11	T6VI-6-21-II-11	Wide band anti-reflection coating: Al2O3/ZrO2/MgF2	Microfractured
1107	T6VI-4-22-X2	Conventional silicon cells, 5 cell string	Microfractured, debonded
1108	T6VI-12-23-6	Thermoluminescent dosimeter, LIF	Buckled, contaminated (stain)
1109	T6VI-11-24-05	ZnSe infrared plate	Missing, holder - eroded
1110	T6VI-11-25-5	Corning 7940 second surface aluminum mirror	Hazed
1111	T6VI-11-26-S04	Aluminized fused silica mirror	Contaminated (particle)
1112	T6VI-11-27-BG04	Low scatter black glass	Unchanged
1113	T6VI-11-28-C81-8	Gold coated copper mirror	Unchanged
1114	T6VI-11-29-N04	Low scatter nickel mirror	Contaminated (particle)
1115	T6VI-7-30-36	Mirror, Ag + (ThF4/ZnS)*3 coating on polished molybdenum substrate	Hazed, cratered
1116	T6VI-7-31-4	Mirror, Ag + (Al2O3/Si)*2 coating on polished molybdenum substrate	Hazed, contaminated (particle)
1117	T6VI-1-32-B11	WO3 (UV treated)+IR dye/Al substrate	Discolored
1118	T6VI-1-33-C11	WO3 (UV treated)/polyurethane/Al substrate	Discolored
1119	T6VI-1-34-A11	WO3 (UV treated)/polyurethane/Al substrate	Discolored
1120	T6VI-1-35-B22	WO3 (UV treated)+IR dye/Al substrate	Discolored

DB#	Sample ID	Description	Post-Flight Condition
1121	T6VI-1-36-C22	WO3 (UV treated)/polyurethane/Al substrate	Discolored
1122	T6VI-1-37-A22	WO3 (UV treated)/polyurethane/Al substrate	Discolored
1123	T6VI-2-38-005	Fused SiO2	Contaminated (particle)
1124	T6VI-2-38-021	Fused SiO2	Contaminated (particle)
1125	T6VI-2-40-029	Fused SiO2	Contaminated (particle)
1126	T6VI-2-41-009	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, contaminated (particle)
1127	T6VI-2-42-013	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, contaminated (particle)
1128	T6VI-2-43-023	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed, contaminated (particle)
1129	T6VI-2-44-N21	Polished molybdenum	Hazed
1130	T6VI-2-45-N17	Polished molybdenum	Hazed
1131	T6VI-2-46-N4	Polished molybdenum	Hazed
1132	T6VI-2-47-N1	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Unchanged
1133	T6VI-2-48-N12	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Unchanged
1134	T6VI-2-49-N2	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Hazed (-)
1135	T6VI-2-50-8691	Diamond-turned copper, A surface	Corroded
1136	T6VI-2-51-8689	Diamond-turned copper, B surface	Hazed
1137	T6VI-2-52-8684	Diamond-turned copper, C surface	Hazed
1138	T6VI-2-53-1	Diamond-turned nickel coated copper, A surface	Hazed
1139	T6VI-2-54-7	Diamond-turned nickel coated copper, A surface	Hazed (-)
1140	T6VI-2-55-9	Diamond-turned nickel coated copper, B surface	Hazed
1141	T6VI-2-56-008	Fused SiO2	Unchanged
1142	T6VI-2-57-011	MgF2 coating, lambda (1.06)/2 thick/fused silica substrate	Crazed
1143	T6VI-2-58-N5	Polished molybdenum	Contaminated (particle)
1144	T6VI-2-59-N13	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Contaminated (particle)
1145	T6VI-2-60-8685	Diamond-turned copper	Unchanged
1146	T6VI-2-61-3	Diamond-turned nickel coated copper	Contaminated (particle)
1147	T6VI-1-62-A63	WO3 (UV treated)/polyurethane/Al substrate	Unchanged
1148	T6VI-1-63-B63	WO3 (UV treated)+IR dye/Al substrate	Unchanged
1149	T6VI-1-64-C63	WO3 (UV treated)/polyurethane/Al substrate	Unchanged
2000	D4-SCU Cover	S13GLO painted Al box covering signal conditioning unit	Discolored, contaminated (stain), cratered
2001	D4-Sunshield	Chemglaze A276 painted Al sunshield covering Experiment Power and Data System	Discolored
2002	D6-SCU Cover	S13GLO painted Al box covering signal conditioning unit	Discolored, crazed, cratered
2003	D6-Sunshield	Chemglaze A276 painted Al sunshield covering Experiment Power and Data System	Eroded, cratered
2004	L31-20-1	Teflon FEP/Ag/Inconel/adhesive sheet	Eroded, discolored, cratered

**M0003 Data Base Contents
Sorted by Application**

DBS	Application	Description	Sample ID
225	Adhesive bond, hardware, solar power	Thin solar cell, standard Si	L3IV-8-63-3
224	Adhesive bond, hardware, solar power	Thin film solar cell, CuInSe ₂ /CdS	L3IV-8-62-183-3
1061	Adhesive bond, solar power	Strip, Solid R coating: (A, DC93-500v B, R-2501)	T6III-9-220-S0-R
1058	Adhesive bond, solar power	Strip, Solid K coating: (A, DC93-500v B, R-2501)	T6III-9-217-S0-K
1009	Adhesive bond, solar power	Strip, Solid D coating: (A, Electrodag 502/ B, Electrodag 501)	T6III-9-168-S0-D
946	Adhesive bond, solar power	Strip, Solid Q coating: (A, DC93-500v B, R-2501)	T6III-9-120-S0-Q
887	Adhesive bond, solar power	Strip, Solid C coating: (A, Electrodag 502/ B, Electrodag 501)	T6III-9-61-S0-C
885	Adhesive bond, solar power	Strip, Solid J coating: (A, DC93-500v B, R-2500)	T6III-9-59-S0-J
493	Adhesive bond, solar power	Strip, Solid H coating: (A, DC93-500v B, R-2500)	L6III-9-238-S0-H
472	Adhesive bond, solar power	Strip, Solid B coating: (A, Electrodag 502 / B, Electrodag 501)	L6III-9-217-S0-B
430	Adhesive bond, solar power	Strip, Solid P coating: (A, DC93-500v B, R-2501)	L6III-9-175-S0-P
305	Adhesive bond, solar power	Strip, Solid A coating: (A, Electrodag 502 / B, Electrodag 501)	L6III-9-61-S0-A
289	Adhesive bond, solar power	Strip, Solid G coating: (A, DC93-500v B, R-2500)	L6III-9-45-S0-G
272	Adhesive bond, solar power	Strip, Solid O coating: (A, DC93-500v B, R-2501)	L6III-9-29-S0-O
1100	Adhesive bond, thermal control	7 µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond, General Electric	T6VI-5-15-A6
515	Adhesive bond, thermal control	7 µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond, General Electric	L6VI-5-16-A6
32	Adhesive bond, thermal control	7 µm quartz fabric chemical and heat cleaned (+450 °C), adhesive bond/Al, General Electric	L3II-5-24-A6
600	Adhesive bond, thermal control	7 µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond/Al, General Electric	T3II-5-24-A6
688	Antennae	Solid plastic-metal laminate	T3III-9-36-AM4a
687	Antennae	Plastic-metal mesh laminate	T3III-9-35-AM3d
686	Antennae	Gold-plated knitted Dacron mesh	T3III-9-34-AM2b
685	Antennae	Gold-plated woven Dacron mesh	T3III-9-33-AM1c
684	Antennae	Solid plastic-metal laminate	T3III-9-32-AM4c
683	Antennae	Plastic-metal mesh laminate	T3III-9-31-AM3c
682	Antennae	Gold-plated knitted Dacron mesh	T3III-9-30-AM2c
681	Antennae	Gold-plated woven Dacron mesh	T3III-9-29-AM1B
123	Antennae	Solid plastic-metal laminate	L3III-9-36-AM4D
122	Antennae	Plastic-metal mesh laminate	L3III-9-35-AM3B
121	Antennae	Gold-plated knitted Dacron mesh	L3III-9-34-AM2A
120	Antennae	Gold-plated woven Dacron mesh	L3III-9-33-AM1A
119	Antennae	Solid plastic-metal laminate	L3III-9-32-AM4E
118	Antennae	Plastic-metal mesh laminate	L3III-9-31-AM3E
117	Antennae	Gold-plated knitted Dacron mesh	L3III-9-30-AM2E
116	Antennae	Gold-plated woven Dacron mesh	L3III-9-29-AM1E
650	Contamination monitor	ZnSe crystal	T3II-18-74-X
82	Contamination monitor	ZnSe crystal	L3II-18-74-1
622	Contamination monitor, electronics	Coated quartz crystal microbalance (OCM) - passive, 150A ZnS/9000A Al+Al ₂ O ₃	T3II-14-46-04
621	Contamination monitor, electronics	Coated quartz crystal microbalance (OCM) - active, 150A In ₂ O ₃ /9000A Al+Al ₂ O ₃	T3II-14-45-03
54	Contamination monitor, electronics	Coated quartz crystal microbalance (OCM) - passive, 150A ZnS/9000A Al+Al ₂ O ₃	L3II-14-46-6
53	Contamination monitor, electronics	Coated quartz crystal microbalance (OCM) - active, 150A In ₂ O ₃ /9000A Al+Al ₂ O ₃	L3II-14-45-12
1111	Contamination monitor, optics	Aluminized fused silica mirror	T6VI-11-26-S04
1109	Contamination monitor, optics	ZnSe infrared plate	T6VI-11-24-05
711	Contamination monitor, optics	Aluminized fused silica mirror	T3III-11-59-S03

DBF Application	Description	Sample ID
625 Contamination monitor, optics	Aluminized fused silica mirror	T3II-11-49-S06
624 Contamination monitor, optics	Low scatter black glass	T3II-11-48-BG06
514 Contamination monitor, optics	ZnSe infrared plate	L6VI-11-15-2
509 Contamination monitor, optics	Gold coated nickel mirror	L6VI-11-10-C82-4
508 Contamination monitor, optics	Low scatter nickel mirror	L6VI-11-9-N02
505 Contamination monitor, optics	Aluminized fused silica mirror	L6VI-11-6-S02
147 Contamination monitor, optics	ZnSe infrared plate	L3III-11-60-1
146 Contamination monitor, optics	Aluminized fused silica mirror	L3III-11-59-S01
57 Contamination monitor, optics	Aluminized fused silica mirror	L3II-11-49-S07
521 Contamination monitor, thermal control, optics	Coating 7940 second surface aluminum mirror	L6VI-11-22-2
1149 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-64-C63
1148 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	T6VI-1-63-B63
1147 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-62-A63
1122 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-37-A22
1121 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-36-C22
1120 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-35-B22
1119 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	T6VI-1-34-A11
1118 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T6VI-1-33-C11
1117 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	T6VI-1-32-B11
631 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	T3II-1-55-C7
630 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	T3II-1-54-B7
629 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	T3II-1-53-A7
628 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-69-C52
625 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-66-A52
624 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	L6VI-1-65-B52
623 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-64-A41
622 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	L6VI-1-63-B41
621 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-62-C41
620 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-4-A33
619 Electro-optic signature	WO3 (UV treated)-IR dye/Al substrate	L6VI-1-3-B33
618 Electro-optic signature	WO3 (UV treated)/polyurethane/Al substrate	L6VI-1-2-C33
1105.13 Electro-optics, optics	Thermo switch (non-linear); Non-linear material/Ge	T6VI-13-20-13A
696.1 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-3639D
696.09 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-3639C
696.08 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-16
696.07 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-15
696.06 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-14
696.05 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-13
696.04 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-12
696.03 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-11
696.02 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-D-10
696.01 Electronics	GaAs FETs, bulk GaAs	T3III-19-44-L-09
695.09 Electronics	MOS Devices	T3II-19-43-C-09

DB#	Application	Description	Sample ID
695.08	Electronics	MOS devices	T3III-19-43-C-08
695.07	Electronics	MOS devices	T3III-19-43-C-07
695.06	Electronics	MOS device	T3III-19-43-C-06
695.05	Electronics	MOS devices	T3III-19-43-C-05
695.04	Electronics	MOS devices	T3III-19-43-C-04
695.03	Electronics	MOS devices	T3III-19-43-C-03
695.02	Electronics	MOS devices	T3III-19-43-C-02
695.01	Electronics	MOS devices	T3III-19-43-C-01
131.1	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-3639B
131.09	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-3639A
131.07	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-07
131.06	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-06
131.05	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-05
131.02	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-02
131.01	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-01
130.1	Electronics	MOS Devices	L3III-19-43-A-10
130.09	Electronics	MOS Device	L3III-19-43-A-09
130.08	Electronics	MOS Device	L3III-19-43-A-08
130.07	Electronics	MOS Devices	L3III-19-43-A-07
130.06	Electronics	MOS Devices	L3III-19-43-A-06
130.05	Electronics	MOS Device	L3III-19-43-A-05
130.04	Electronics	MOS Device	L3III-19-43-A-04
130.03	Electronics	MOS Device	L3III-19-43-A-03
130.02	Electronics	MOS Device	L3III-19-43-A-02
130.01	Electronics	MOS Device	L3III-19-43-A-01
131.08	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-08
131.04	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-04
131.03	Electronics	GaAs FETs, bulk GaAs	L3III-19-44-B-03
696	Electronics, hardware	Anodized aluminum mounting plate with GaAs FETs, bulk GaAs	T3III-19-44-D-00
695	Electronics, hardware	Anodized aluminum mounting plate with MOS devices	T3III-19-43-C-00
576	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	T3I-9-8-CW4
575	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	T3I-9-7-CW3
574	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	T3I-9-6-CW2
573	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	T3I-9-5-CW1
131	Electronics, hardware	Anodized aluminum mounting plate with GaAs FETs, bulk GaAs	L3III-19-44-B-00
130	Electronics, hardware	Anodized aluminum mounting plate with MOS devices	L3III-19-43-A-00
8	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	L3I-9-8-CW4
7	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	L3I-9-7-CW3
6	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	L3I-9-6-CW2
5	Electronics, hardware	Bendix JT06R plug & JT02R receptacle mounted on Al with Ti and Ag-plated stainless steel hardware	L3I-9-5-CW1
1054	Electronics, hardware, insulation	Coated wire, MIL-W-22759/32	T6III-9-213-W2
942	Electronics, hardware, insulation	Coated wire, MIL-W-22759/32	T6III-9-116-W1
789	Hardware, adhesive bond, solar power	Thin film solar cell, standard Si	T3IV-8-63-8

DB#	Application	Description	Sample ID
788	Hardware, adhesive bond, solar power	Thin film solar cell, CuInSe ₂ /CdS	T3IV-8-62-183-4
1105.07	Insulation, thermal control	Ceramic ML1 retainer: MACOR	T6VI-13-20-07A
1105.02	Insulation, thermal control	Reflective ML1 retainer: Al ₂ O ₃ (0.3255μm) / Ag(0.2μm) / Al ₂ O ₃ (0.0245μm) / VESPEL	T6VI-13-20-02A
1146	Laser optics, optics	Diamond-turned nickel coated copper	T6VI-2-61-3
1145	Laser optics, optics	Diamond-turned copper	T6VI-2-60-8685
1144	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)μ thick/ molybdenum substrate	T6VI-2-59-N13
1143	Laser optics, optics	Polished molybdenum	T6VI-2-58-N9
1142	Laser optics, optics	MgF ₂ coating, lambda (1.06)μ thick/fused silica substrate	T6VI-2-57-011
1141	Laser optics, optics	Fused SiO ₂	T6VI-2-56-008
1140	Laser optics, optics	Diamond-turned nickel coated copper, B surface	T6VI-2-55-9
1139	Laser optics, optics	Diamond-turned nickel coated copper, A surface	T6VI-2-54-7
1138	Laser optics, optics	Diamond-turned nickel coated copper, A surface	T6VI-2-53-1
1137	Laser optics, optics	Diamond-turned copper, C surface	T6VI-2-52-8684
1136	Laser optics, optics	Diamond-turned copper, B surface	T6VI-2-51-8689
1135	Laser optics, optics	Diamond-turned copper, A surface	T6VI-2-50-8691
1134	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)μ thick/ molybdenum substrate	T6VI-2-49-N2
1133	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)μ thick/ molybdenum substrate	T6VI-2-48-N12
1132	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)μ thick/ molybdenum substrate	T6VI-2-47-N1
1131	Laser optics, optics	Polished molybdenum	T6VI-2-46-N4
1130	Laser optics, optics	Polished molybdenum	T6VI-2-45-N17
1129	Laser optics, optics	Polished molybdenum	T6VI-2-44-N21
1128	Laser optics, optics	MgF ₂ coating, lambda (1.06)μ thick/fused silica substrate	T6VI-2-43-023
1127	Laser optics, optics	MgF ₂ coating, lambda (1.06)μ thick/fused silica substrate	T6VI-2-42-013
1126	Laser optics, optics	MgF ₂ coating, lambda (1.06)μ thick/fused silica substrate	T6VI-2-41-009
1125	Laser optics, optics	Fused SiO ₂	T6VI-2-40-029
1124	Laser optics, optics	Fused SiO ₂	T6VI-2-39-021
1123	Laser optics, optics	Fused SiO ₂	T6VI-2-38-005
1106.11	Laser optics, optics	Wide band anti-reflection coating: Al ₂ O ₃ /ZrO ₂ /MgF ₂	T6VI-6-21-II-11
1106.1	Laser optics, optics	Wide band reflector coating: ZrO ₂ /SiO ₂ on silica	T6VI-6-21-II-10
1106.09	Laser optics, optics	Wide band reflector coating: TiO ₂ /SiO ₂ on silica	T6VI-6-21-II-9
1106.08	Laser optics, optics	Solar telescope high reflectance coating: Au/Spinel on Ni/Al	T6VI-6-21-II-8
1106.07	Laser optics, optics	Solar telescope high reflectance coating: Electroplated Au on Ni/Al	T6VI-6-21-II-7
1106.06	Laser optics, optics	Telescope/gimbal high reflectance coating: SiO ₂ /Ag on Cervit	T6VI-6-21-II-6
1106.05	Laser optics, optics	Telescope/gimbal high reflectance coating: SiO ₂ /Al ₂ O ₃ /Ag on silica	T6VI-6-21-II-5
1106.04	Laser optics, optics	Telescope/gimbal high reflectance coating: ZnS/ThF4/Ag on silica	T6VI-6-21-II-4
1106.03	Laser optics, optics	Lens anti-reflection coating: Yttralox/MgF ₂ on Silica	T6VI-6-21-II-3
1106.02	Laser optics, optics	Laser mirror high reflectance coating: TiO ₂ /SiO ₂ on silica	T6VI-6-21-II-2
1106.01	Laser optics, optics	Laser rod anti-reflection coating: ZrO ₂ /SiO ₂ on YAG	T6VI-6-21-II-1
560	Laser optics, optics	Diamond-turned nickel coated copper, B surface	L6VI-2-61-6
559	Laser optics, optics	Diamond-turned nickel coated copper, A surface	L6VI-2-60-4
558	Laser optics, optics	Diamond-turned nickel coated copper, A surface	L6VI-2-59-2
557	Laser optics, optics	Diamond-turned copper, A surface	L6VI-2-58-8686
556	Laser optics, optics	Diamond-turned copper, B surface	L6VI-2-57-8683

DB#	Application	Description	Sample ID
555	Laser optics, optics	Diamond-turned copper, A surface	L6VI-2-56-8692
554	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	L6VI-2-55-N14
553	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	L6VI-2-54-N6
552	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	L6VI-2-53-N3
551	Laser optics, optics	Polished molybdenum	L6VI-2-52-N8
550	Laser optics, optics	Polished molybdenum	L6VI-2-51-N23
549	Laser optics, optics	Polished molybdenum	L6VI-2-50-N19
548	Laser optics, optics	MgF2 coating, lambda (1.06)/2 thick/lused silica substrate	L6VI-2-49-024
547	Laser optics, optics	MgF2 coating, lambda (1.06)/2 thick/lused silica substrate	L6VI-2-48-022
546	Laser optics, optics	MgF2 coating, lambda (1.06)/2 thick/lused silica substrate	L6VI-2-47-014
545	Laser optics, optics	Fused SiO2	L6VI-2-46-019
544	Laser optics, optics	Fused SiO2	L6VI-2-45-018
543	Laser optics, optics	Fused SiO2	L6VI-2-44-002
64	Laser optics, optics	Diamond-turned copper	L3II-2-56-8688
63	Laser optics, optics	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	L3II-2-55-N248
62	Laser optics, optics	Polished molybdenum	L3II-2-54-N18A
61	Laser optics, optics	MgF2 coating, lambda (1.06)/2 thick/lused silica substrate	L3II-2-53-010
60	Laser optics, optics	Fused SiO2	L3II-2-52-006
65	Laser optics, optics	Diamond-turned nickel coated copper	L3II-2-57-10
1116	Optics	Mirror, Ag + (Al2O3/Si)^2 coating on polished molybdenum substrate	T6VI-7-31-4
1115	Optics	Mirror, Ag + (ThF4/ZnS)^3 coating on polished molybdenum substrate	T6VI-7-30-36
1105.2	Optics	Staring horizon sensor: Dielectric Stack/ZnSe/Dielectric stack	T6VI-13-20-20A
1105.19	Optics	Scanning horizon sensor: Dielectric stack/ Ge	T6VI-13-20-19A
1105.18	Optics	Reflective/transmissive filter: ZnS/SrF2/ITO/SiO2	T6VI-13-20-18A
1105.17	Optics	Sapphire cover slip	T6VI-13-20-17A
1105.16	Optics	Sapphire second surface mirror	T6VI-13-20-16A
1105.14	Optics	Absorptive stack: Dielectric stack/SiO2/Al2O3/Ni-Au/ Be	T6VI-13-20-14A
1105.12	Optics	Wide band reflective stack	T6VI-13-20-12A
640	Optics	ZnS coating on SiO2 substrate	T3II-7-64-11
639	Optics	As2Se3 coating on SiO2 substrate	T3II-7-63-12
638	Optics	PbF2 coating on SiO2 substrate	T3II-7-62-8
637	Optics	ThF4 coating on SiO2 substrate	T3II-7-61-7
636	Optics	Si coating on SiO2 substrate	T3II-7-60-4
635	Optics	Al2O3 coating on SiO2 substrate	T3II-7-59-2
632	Optics	Mirror, Al2O3 coating, lambda/2 thick @ 2.7 um, CaF2 substrate	T3II-7-56-23
567	Optics	Mirror, Ag+(ThF4/ZnS)^5 multi-layer coating on polished molybdenum substrate	L6VI-7-68-15
566	Optics	Mirror, Ag+(Al2O3/ZnS)^4 multi-layer coating on polished molybdenum substrate	L6VI-7-67-239
500	Optics	Mirror, Ag + (Al2O3/Si)^3 multi-layer coating on polished silicon substrate	L6VI-7-1-46-11
73	Optics	ZnS coating on SiO2 substrate	L3II-7-65-10
72	Optics	SiOx coating on SiO2 substrate	L3II-7-64-9
71	Optics	ThF4 coating on SiO2 substrate	L3II-7-63-6
70	Optics	NaF coating on SiO2 substrate	L3II-7-62-5
69	Optics	Si coating on SiO2 substrate	L3II-7-61-3

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68	Optics	Al2O3 coating on SiO2 substrate	L3II-7-60-1
1114	Optics, contamination monitor	Low scatter nickel mirror	T6VI-11-29-N04
1113	Optics, contamination monitor	Gold coated copper mirror	T6VI-11-28-C81-8
1112	Optics, contamination monitor	Low scatter black glass	T6VI-11-27-BG04
712	Optics, contamination monitor	ZnSe infrared plate	T3II-11-60-04
626	Optics, contamination monitor	Low scatter nickel mirror	T3II-11-50-N03
504	Optics, contamination monitor	Low scatter black glass	L6VI-11-5-BG02
58	Optics, contamination monitor	Low scatter nickel mirror	L3II-11-50-N01
56	Optics, contamination monitor	Low scatter black glass	L3II-11-48-BG01
149	Optics, contamination monitor, thermal control	Low scatter black glass	L3II-11-62-X
1105 15	Optics, electro-optics	Corning 7940 second surface aluminum mirror	T6VI-13-20-15A
242	Optics, structures	Non-linear material: VO2/BaF2 - Honeywell	L6III-10-6-ALB-7
241	Optics, structures	Mirror, GY70201/2024 clad (6 ply)	L6III-10-5-GL2-1
1110	Optics, thermal control, contamination monitor	Mirror, graphite/glass; Colson 6000phosphoricate glass	T6VI-11-25-5
714	Optics, thermal control, contamination monitor	Corning 7940 second surface aluminum mirror	T3III-11-62-3
572	Radar camouflage	Corning 7940 second surface aluminum mirror	T3I-1-4-B
571	Radar camouflage	Resonant window	T3I-1-3-A
570	Radar camouflage	Capacitive grid	T3I-1-2-D
51-3	Radar camouflage	Circuit analog sheet	T3I-1-1-C
4	Radar camouflage	Resonant reflector	L3I-1-4-B
3	Radar camouflage	Resonant window	L3I-1-3-A
2	Radar camouflage	Capacitive grid	L3I-1-2-D
1	Radar camouflage	Circuit analog sheet	L3I-1-1-C
1108	Radiation dosimetry	Resonant reflector	T6VI-12-23-6
796	Radiation dosimetry	Thermoluminescent dosimeter, LiF	T3IV-17-70-1
713	Radiation dosimetry	Thermoluminescent dosimeter, LiF	T3III-12-61-3
623	Radiation dosimetry	Thermoluminescent dosimeter, LiF	T3II-12-47-4
526	Radiation dosimetry	Thermoluminescent dosimeter, LiF	L6VI-12-27-3
232	Radiation dosimetry	Thermoluminescent dosimeter, LiF	L3IV-17-70-1
148	Radiation dosimetry	Thermoluminescent dosimeter, LiF	L3III-12-61-2
55	Radiation dosimetry	Thermoluminescent dosimeter, LiF	L3II-12-47-1
1107	Solar power	Conventional silicon cells, 5 cell string	T6VI-4-22-X2
749	Solar power	Conventional silicon cells, 5 cell string	T3IV-4-23-X4
748	Solar power	Conventional silicon cells, 5 cell string	T3IV-4-22-D
747	Solar power	High performance silicon cells, 5 cell string	T3IV-4-21-VJ2
746	Solar power	Vertical junction silicon cells, 5 cell string	T3IV-4-20-GA2
745	Solar power	HESP II GaAs cells, 5 cell string	T3IV-4-19-C
520	Solar power	HESP II silicon cells, 5 cell string	L6VI-4-21-X1
185	Solar power	Conventional silicon cells, 5 cell string	L3IV-4-23-X3
183	Solar power	Conventional silicon cells, 5 cell string	L3IV-4-22-B
182	Solar power	High performance silicon cells, 5 cell string	L3IV-4-21-VJ1
181	Solar power	Vertical junction silicon cells, 5 cell string	L3IV-4-20-GA1
	Solar power	HESP II Ga As cells, 5 cell string	L3IV-4-19-A
	Solar power	HESP II silicon cells, 5 cell string	

DB#	Application	Description	Sample ID
812	Solar power, optics	Ceria, Delrin retainer, OCLI	T3IV-4-86-63
811	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	T3IV-4-85-59
810	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	T3IV-4-84-55
809	Solar power, optics	7070 fused silica, Delrin retainer, OCLI	T3IV-4-83-51
807	Solar power, optics	Mark IV coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-81-43
806	Solar power, optics	Erosion coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-80-39
805	Solar power, optics	Erosion coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-79-35
803	Solar power, optics	Mark III E coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-77-27
802	Solar power, optics	Mark III D coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-76-23
801	Solar power, optics	HEA coating 3:1 on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-75-19
800	Solar power, optics	Reflective 350nm coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-74-15
799	Solar power, optics	Reflective 350nm coating on Ceria, Delrin retainer, OCLI	T3IV-4-73-11
798	Solar power, optics	Reflective 350nm coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-72-7
797	Solar power, optics	Standard 350nm coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-71-3
742	Solar power, optics	Ceria, Delrin retainer, OCLI	T3IV-4-16-62
741	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	T3IV-4-15-58
740	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	T3IV-4-14-54
739	Solar power, optics	7070 fused silica, Delrin retainer, OCLI	T3IV-4-13-50
737	Solar power, optics	Mark IV coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-11-42
736	Solar power, optics	Erosion coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-10-38
735	Solar power, optics	Erosion coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-9-34
733	Solar power, optics	Mark III E coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-7-26
732	Solar power, optics	Mark III D coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-6-22
731	Solar power, optics	HEA 3:1 coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-5-18
730	Solar power, optics	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-4-14
729	Solar power, optics	Reflective 350 nm coating/CERIA, Delrin retainer, OCLI	T3IV-4-3-10
728	Solar power, optics	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-2-6
727	Solar power, optics	Standard 350 nm coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-1-2
633	Solar power, optics	Solar cell coating	T3II-4-57-3
178	Solar power, optics	Ceria, Delrin retainer, OCLI	L3IV-4-16-61
177	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	L3IV-4-15-57
176	Solar power, optics	7940 fused silica, Delrin retainer, OCLI	L3IV-4-14-52
175	Solar power, optics	7070 fused silica, Delrin retainer, OCLI	L3IV-4-13-49
173	Solar power, optics	Mark IV coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-11-41
172	Solar power, optics	Erosion coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-10-37
171	Solar power, optics	Erosion coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-9-33
169	Solar power, optics	Mark III E coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-7-25
168	Solar power, optics	Mark III D coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-6-24
167	Solar power, optics	HEA 3:1 coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-5-17
166	Solar power, optics	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-4-13
165	Solar power, optics	Reflective 350 nm coating/CERIA, Delrin retainer, OCLI	L3IV-4-3-9
164	Solar power, optics	Reflective 350 nm coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-2-5
163	Solar power, optics	Standard 350 nm coating/7940 fused silica, Delrin retainer, OCLI	L3IV-4-1-1

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67	Solar power, optics	Solar cell coating	L3II-4-59-SC2
66	Solar power, optics	Solar cell coating	L3II-4-58-SC1
808	Solar power, optics, contamination monitor	Contamination coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-82-47
804	Solar power, optics, contamination monitor	Contamination coating on 7940 fused silica, Delrin retainer, OCLI	T3IV-4-78-31
738	Solar power, optics, contamination monitor	Contamination coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-12-46
734	Solar power, optics, contamination monitor	Contamination coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-8-30
174	Solar power, optics, contamination monitor	Contamination coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-12-45
170	Solar power, optics, contamination monitor	Contamination coating/7940 fused silica, Delrin retainer, OCLI	T3IV-4-8-29
1085	Structures	Sirip, SiC fiber, SC S2/Al	T6III-10-244-AL32-5
1081	Structures	Sirip, SiC fiber, SC S2/Al	T6III-10-240-AL32-3
1080	Structures	Sirip, graphite/LARC 160	T6III-10-239-PI2-10
1079	Structures	Sirip, graphite/LARC 160	T6III-10-238-PI2-9
1078	Structures	Sirip, graphite/LARC 160	T6III-10-237-PI2-8
1077	Structures	Sirip, T300/P1700, (0/90)	T6III-10-236-PS1-12
1076	Structures	Sirip, T300/V378A, (0/45/90/135)S2	T6III-10-235-PI5-12
1075	Structures	Sirip, T300/V378A (0/45/90/135)S2	T6III-10-234-PI5-11
1074	Structures	Sirip, Cation 6000/PMR-15, (0)	T6III-10-233-PI5-10
1073	Structures	Sirip, P75S/CE-339, (0/45/90/135)S4	T6III-10-232-EP21-8
1072	Structures	Sirip, P75S/CE-339, (0/45/90/135)S4	T6III-10-231-EP21-7
1071	Structures	Sirip, T300/polyether sulfone/with leafing Al coating	T6III-10-230-PS12-2
1069	Structures	Sirip, P100/201/2024 Al (+20°/-20°)S	T6III-10-228-AL33-7
1068	Structures	Sirip, P100/201/2024 Al (+20°/-20°)S	T6III-10-227-AL33-5
1067	Structures	Sirip, P100/AZ91C/AZ61A (+10°/-10°)S	T6III-10-226-MG10-8
1066	Structures	Sirip, P100/AZ91C/AZ61A (+10°/-10°)S	T6III-10-225-MG10-3
1065	Structures	Sirip, GY70/CE-339 (0/45/90/135)S2	T6III-10-224-EP22-10
1064	Structures	Sirip, GY70/CE-339 (0/45/90/135)S2	T6III-10-223-EP22-6
1063	Structures	Sirip, GY70/X-30/Sn-In eut. (0/45/90/135)4	T6III-10-222-EP2-6
1060	Structures	Sirip, SiC whiskers/6061Al	T6III-10-219-AL31-4
1057	Structures	Sirip, P100/AZ91C/AZ61A (90)	T6III-10-216-MG9-T5
1056	Structures	Sirip, P100/AZ91C/AZ61A (90)	T6III-10-215-MG9-T7
1055	Structures	Sirip, VS0054/EZ33/AZ31B clad, (90)	T6III-10-214-MG6-4
1050	Structures	Sirip, SiC whiskers/2124 Al	T6III-10-209-AL30-3
1049	Structures	Sirip, T300/P1700 (0/90)	T6III-10-208-PS1-7
1048	Structures	Sirip, Cation 6000/PMR-15 (0)	T6III-10-207-PI1-12
1047	Structures	Sirip, Cation 6000/PMR-15 (0)	T6III-10-206-PI1-11
1046	Structures	Sirip, GY70/X904B, (0)	T6III-10-205-EP7-4
1045	Structures	Sirip, GY70/X904B (0/90/90/0)	T6III-10-204-EP6-4
1044	Structures	Sirip, GY70/X904B (0)	T6III-10-203-EP5-4
1043	Structures	Sirip, E-glass 120 Fabric/X904B, (0)	T6III-10-202-EP10-4
1042	Structures	Sirip, T300/2 mil-3M 113 viscoelastic tape/5208	T6III-10-201-EP20-1
1041	Structures	Sirip, T300/2 mil-3M 113 viscoelastic tape/5208	T6III-10-200-EP19-1
1040	Structures	Sirip, T300/2 mil-3M 113 viscoelastic tape/5208	T6III-10-199-EP18-1
1039	Structures	Sirip, GY70/934 (0/45/90/135)S2	T6III-10-198-EP13-8

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1038	Structures	Strip, VS0054/EZ33A/AZ31B clad (0)	T6III-10-197-MG5-10
1037	Structures	Strip, VS0054/EZ33A/AZ31B clad (0)	T6III-10-190-MG5-21
1036	Structures	Strip, VS0054/EZ33A/AZ31B clad (0)	T6III-10-195-MG5-4
1035	Structures	Strip, GY70/934 (0/45/90/135)S2	T6III-10-194-EP13-7
1034	Structures	Strip, P100/AZ91C/AZ61A (0)	T6III-10-193-MG9-18
1033	Structures	Strip, P100/AZ91C/AZ61A (0)	T6III-10-192-MG9-14
1032	Structures	Strip, VS0054/EZ33A/AZ31B, (0)	T6III-10-191-MG3
1031	Structures	Strip, VS0054/EZ33A/AZ31B, (0)	T6III-10-190-MG3
1030	Structures	Strip, VS0054/EZ33A/AZ31B, (0)	T6III-10-189-MG3
1029	Structures	Strip, GY70/CE-339 (0/45/90/135)S2	T6III-10-188-EP22-4
1028	Structures	Strip, VSB32/6061-T6/6061 Al clad, (90)	T6III-10-187-AL15-14
1027	Structures	Strip, VSB32/6061-T6/6061 Al clad, (90)	T6III-10-186-AL15-5
1026	Structures	Strip, VSB32/6061-T6/6061 Al clad, (0)	T6III-10-185-AL14-17
1025	Structures	Strip, VSB32/6061-T6/6061 Al clad, (0)	T6III-10-184-AL14-3
1024	Structures	Strip, VSB32/6061-T6/6061 Al clad, (0)	T6III-10-183-AL14-18
1023	Structures	Strip, Celson 6000/PMR-15 (0)	T6III-10-182-P11-10
1022	Structures	Strip, AS/3501-6 (0)	T6III-10-181-EP4-13
1021	Structures	Strip, AS/3501-6 (0)	T6III-10-180-EP4-12
1020	Structures	Strip, AS/3501-6 (0)	T6III-10-179-EP4-11
1019	Structures	Strip, P75S/934, (0/45/90/135)S2	T6III-10-178-EP12-8
1018	Structures	Strip, P75S/934, (0/45/90/135)S2	T6III-10-177-EP12-7
1017	Structures	Strip, T300/P1700 (0/90)	T6III-10-176-PS1-8
1013	Structures	Strip, VS0054/EZ33A/AZ31B clad (0)	T6III-10-172-MG5-14
1008	Structures	Strip, graphite/glass: Celson 6000/borosilicate glass	T6III-10-167-GL3-3
1007	Structures	Strip, VSB32/6061-T6/6061 Al (0)	T6III-10-166-AL12-12
1006	Structures	Strip, VSB32/6061-T6/6061 Al (0)	T6III-10-165-AL12-11
1005	Structures	Strip, VSB32/6061-T6/6061 Al (0)	T6III-10-164-AL12-10
1004	Structures	Strip, LAC 23-4688, elastomer	T6III-9-163-MPS-C-8
1003	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-162-AL6-8
1002	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-161-AL6-4
999	Structures	Strip, T300 tape/934 (0)	T6III-10-158-EP3-12
998	Structures	Strip, T300 tape/934 (0)	T6III-10-157-EP3-11
997	Structures	Strip, T300 tape/934 (0)	T6III-10-156-EP3-10
994	Structures	Strip, W-722 (Graphite/Glass fabric)/P1700	T6III-10-153-PS2-12
993	Structures	Strip, W-722 (Graphite/Glass fabric)/P1700	T6III-10-152-PS2-11
992	Structures	Strip, W-722 (Graphite/Glass fabric)/P1700	T6III-10-151-PS2-10
991	Structures	Strip, Invar LR35	T6III-10-150-SS1-10
990	Structures	Strip, LAC 23-4688, elastomer	T6III-9-149-MPS-C-6
988	Structures	Strip, GY70/X-30 (0/45/90/135)4	T6III-10-147-EP1-8
987	Structures	Strip, GY70/X-30 (0/45/90/135)4	T6III-10-146-EP1-7
986	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-145-AL5-14
985	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-144-AL5-13
984	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-143-AL5-6

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983	Structures	Strip, LAC 23-4688, customer	T6III-9-142-MPS-C-5
982	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-141-AL4-8
981	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-140-AL4-7
980	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-139-AL3-13
979	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-138-AL3-11
978	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-137-AL3-10
977 04	Structures	Wire, SC/6061Al	T6III-10-136-14
977 03	Structures	Wire, SC/6061Al	T6III-10-136-13
977 02	Structures	Wire, SC/6061Al	T6III-10-136-12
977 01	Structures	Wire, SC/6061Al	T6III-10-136-11
976	Structures	Wire, SC/6061Al	T6III-10-135-10
975	Structures	Wire, P55 (10K)/AZ91C	T6III-10-135-9
974	Structures	Wire, P100/AZ31B (Ti + B)	T6III-10-135-8
973	Structures	Wire, P55 (10K)/6061Al	T6III-10-135-7
972	Structures	Wire, P100/6061 Al (Ti + B)	T6III-10-135-6
971	Structures	Wire, T300/6061Al	T6III-10-135-5
970	Structures	Wire, P55/6061 Al (Ti + B)	T6III-10-135-4
969	Structures	Wire, GY70 (81)/201	T6III-10-135-3
968	Structures	Wire, P55 (T62)/6061 Al (Ti + B)	T6III-10-135-2
967	Structures	Wire, P100/AZ61A (Ti + B)	T6III-10-135-1
966	Structures	Strip, GY70/201 clad (0/±60°)s	T6III-10-134-AL7-13
965	Structures	Strip, GY70/201 clad (0/±60°)s	T6III-10-134-AL7-12
964	Structures	Strip, GY70/201 clad (0/±60°)s	T6III-10-133-AL7-15
963	Structures	Strip, GY70/201 clad (0/±60°)s	T6III-10-133-AL7-14
962	Structures	Strip, GY70/201/2024 clad, (0/±60°)s	T6III-10-132-AL7-7
961	Structures	Strip, P75S/934, 102-15A	T6III-9-132-CM48-5
960	Structures	Strip, P75S/934, 102-15A	T6III-9-132-CM48-2
959	Structures	Strip, GY70/201/2024 clad (0/±60°)s	T6III-10-131-AL7-3
958	Structures	Strip, P75S/F593, 102-270	T6III-9-131-CM47-4
957	Structures	Strip, P75S/F593, 102-270	T6III-9-131-CM47-1
956	Structures	Maror, GY70/201/2024 clad, (0/±60°)s	T6III-10-130-AL8-5
955	Structures	Maror, GY70/201/2024 clad, (0/±60°)s	T6III-10-129-AL8-3
948	Structures	Strip, Calion 6060/polyimide	T6III-10-122-P14
945	Structures	Strip, T300 fabric/P1700, (0.90)	T6III-10-119-PS1-10
944	Structures	Strip, T300/V378A, (0/45/90/135)S2	T6III-10-118-PI5-6
943	Structures	Strip, T300/V378A, (0/45/90/135)S2	T6III-10-117-PI5-5
941	Structures	Strip, P75S/CE-339, (0/45/90/135)S4	T6III-10-115-EP21-4
940	Structures	Strip, P75S/CE-339, (0/45/90/135)S4	T6III-10-114-EP21-3
939	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	T6III-10-113-MG10-6
938	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	T6III-10-112-MG10-4
937	Structures	Strip, P100/201/2024 Al (+20°/-20°)S	T6III-10-111-AL33-8
936	Structures	Strip, P100/201/2024 Al (+20°/-20°)S	T6III-10-110-AL33-1
935	Structures	Strip, GY70/X-30(0/45/90/135)S2, Sn-In Eutectic coating	T6III-10-109-EP2-5

DBA Application	Description	Sample ID
934 Structures	Sup. T300/polyether sulfone with leafing Al coating	T6III-10-108-PS12-1
932 Structures	Sup. SC fiber, SC S2/AI	T6III-10-106-AL32-7
931 Structures	Sup. LAC 23-4688, elastomer	T6III-9-105-MPS-C-4
930 Structures	Sup. GY70/934 (0/45/90/135)S2	T6III-10-104-EP13-3
929 Structures	Sup. V50054/EZ33A/AZ31B clad. (0)	T6III-10-103-MG5-3
928 Structures	Sup. GY70/CE339 (0/45/90/135)S2 epson meas., SG4	T6III-10-102-EP22-8
927 Structures	Sup. W-722 (Graphite/Glass fabric)P1700 epson meas., SG5	T6III-10-101-PS2-2
926 Structures	Sup. V50045/EZ33A/AZ31B, clad (0) epson meas., SG5, CTS 4	T6III-10-100-MG3-18
923 Structures	Sup. SC fiber, SC S2/AI	T6III-10-97-AL32-6
922 Structures	Sup. V5832/6061-T66061 Al clad. (0)	T6III-10-96-AL14-4
921 Structures	Sup. GY70/201/2024 clad. (90)	T6III-10-95-AL6-7
920 Structures	Sup. SC whatman/2124 AI	T6III-10-94-AL30-1
919 Structures	Sup. SC whatman/6061AI	T6III-10-93-AL31-3
918 Structures	Sup. V50054/EZ33A/AZ31B clad. (90)	T6III-10-92-MG6-3
917 Structures	Sup. T300 fabric/P1700, (0.90)	T6III-10-91-PS1-4
916 Structures	Sup. T300/V378A-160	T6III-10-90-PI2-4
915 Structures	Sup. Canon 6000/PAR-15 (0)	T6III-10-89-PI1-5
914 Structures	Sup. V5832/6061-T66061 Al clad. (0)	T6III-10-88-AL14-16
913 Structures	Sup. GY70/CE-339 (0/45/90/135)S2	T6III-10-87-EP22-2
912 Structures	Sup. GY70/X904B (0/45/-45)/2/45(AI	T6III-10-86-EP7-2
911 Structures	Sup. LAC 23-4688, elastomer	T6III-9-85-MPS-C-2
910 Structures	Sup. GY70/X904B, (0/90/90/0)	T6III-10-84-EP6-2
909 Structures	Sup. GY70/X904B, (0)	T6III-10-83-EP5-2
908 Structures	Sup. E-glass 120 fabric/X904B, (0)	T6III-10-80-EP10-2
905 Structures	Sup. GY70/201/2024, clad (90)	T6III-10-79-AL6-3
902 Structures	Sup. GY70/934 (0/45/90/135)S2	T6III-10-76-EP13-4
901 Structures	Sup. P100/AZ91C/AZ61A (0")	T6III-10-75-MG9-L7
900 Structures	Sup. V50054/EZ33A/AZ31B clad. (0), epson meas., SG1	T6III-10-74-MG5-22
899 Structures	Sup. T300/polyether sulfone, epson meas., SG2	T6III-10-73-PS11-2
898 Structures	Sup. Canon 6000/PAR-15, epson meas., SG3	T6III-10-72-PI1-6
897 Structures	Sup. V50054/EZ33A/AZ31B, (90)	T6III-10-71-MG4-14
896 Structures	Sup. V50054/EZ33A/AZ31B, (90)	T6III-10-70-MG4-3
895 Structures	Sup. P100/AZ91C/AZ61A (0)	T6III-10-69-MG9-L6
894 Structures	Sup. GY70/X-30 (0/45/90/135)S2, epson meas., SG7	T6III-10-68-EP1-3
893 Structures	Sup. graphite/LARC 160, epson meas., SG8	T6III-10-67-PI2-2
892 Structures	Sup. T300/P1700 (0/90), epson meas., SG9	T6III-10-66-PS1-2
891 Structures	Sup. T300/V378A (0/45/90/135)S2, epson meas., SG10	T6III-10-65-PI5-3
890 Structures	Sup. AS3501-6, epson meas., SG11	T6III-10-64-EP4-3
889 Structures	Sup. T300 tape/934, epson meas., SG12, CTS 13	T6III-10-63-EP3-2
888 Structures	Sup. AS3501-6 (0)	T6III-10-58-EP4-7
883 Structures	Sup. AS3501-6 (0)	T6III-10-57-EP4-6
882 Structures	Sup. P75S/934, (0/45/90/135)S2	T6III-10-56-EP12-4
881 Structures	Sup. P75S/934, (0/45/90/135)S2	T6III-10-55-EP12-3

DBF Application	Description	Sample ID
860 Structures	Sup. graphite/glass: Canon 8000/borosilicate glass	T6III-10-54-GL1-2
873 Structures	Sup. V5034/EZ23A/AZ31B, clad (0)	T6III-10-47-MG5-13
872 Structures	Sup. GY7020/2024 clad, (0)	T6III-10-46-AL3-6
871 Structures	Sup. P100/AZ91C/AZ61A (90)	T6III-10-45-MG9-T3
870 Structures	Sup. V5832/6061-T6/6061 Al clad (0)	T6III-10-44-AL12-9
869 Structures	Sup. V5832/6061-T6/6061 Al clad (0)	T6III-10-43-AL12-8
868 Structures	Sup. V5832/6061-T6/6061 Al clad (0)	T6III-10-42-AL12-7
867 Structures	Sup. Invar LR35, epd. meas., SG13, CTS-2	T6III-10-41-SS1-4
866 Structures	Sup. Invar LR35, epd. meas., SG14	T6III-10-40-SS1-2
865 Structures	Sup. V5832/6061-T6/6061 Al clad, (90), epd. meas., SG15	T6III-10-39-AL15-13
864 1a Structures	Wire, SiC/6061Al	T6III-10-38-44
864 17 Structures	Wire, SiC/6061Al	T6III-10-38-43
864 16 Structures	Wire, SiC/6061Al	T6III-10-38-42
864 15 Structures	Wire, SiC/6061Al	T6III-10-38-41
864 14 Structures	Wire, SiC/6061Al	T6III-10-38-40
864 13 Structures	Wire, SiC/6061Al	T6III-10-38-39
864 12 Structures	Wire, SiC/6061Al	T6III-10-38-38
864 11 Structures	Wire, SiC/6061Al	T6III-10-38-37
864 1 Structures	Wire, SiC/6061Al	T6III-10-38-36
864 09 Structures	Wire, SiC/6061Al	T6III-10-38-35
864 08 Structures	Wire, SiC/6061Al	T6III-10-38-34
864 07 Structures	Wire, SiC/6061Al	T6III-10-38-33
864 06 Structures	Wire, SiC/6061Al	T6III-10-38-32
864 05 Structures	Wire, SiC/6061Al	T6III-10-38-31
864 04 Structures	Wire, SiC/6061Al	T6III-10-38-30
864 03 Structures	Wire, SiC/6061Al	T6III-10-38-29
864 02 Structures	Wire, SiC/6061Al	T6III-10-38-28
864 01 Structures	Wire, SiC/6061Al	T6III-10-38-27
863 04 Structures	Wire, P55 (10K) AZ91C	T6III-10-37-26
863 03 Structures	Wire, P55 (10K) AZ91C	T6III-10-37-25
863 02 Structures	Wire, P55 (10K) AZ91C	T6III-10-37-24
862 01 Structures	Wire, P100/AZ31B (T + B)	T6III-10-37-23
861 Structures	Sup. T300 tape/904 (0)	T6III-10-36-EP3-6
860 Structures	Sup. LAC 23-4638, elastomer	T6III-9-35-MPS-C-1
859 Structures	Sup. T300 tape/904 (0)	T6III-10-34-EP3-5
858 Structures	Sup. W-722(Graphite/Glass fabric)/P1700	T6III-10-31-PS2-6
855 Structures	Sup. W-722(Graphite/Glass fabric)/P1700	T6III-10-30-PS2-5
854 Structures	Sup. GY70CE339, (0/4590/135)S2	T6III-10-29-EP22-5
853 Structures	Sup. Invar LR35	T6III-10-28-SS1-9
850 Structures	Sup. P100/AZ91C/AZ61A (90)	T6III-10-25-MG9-T1
849 Structures	Sup. GY70/X-30 (0/4590/135)4	T6III-10-24-EP1-4
848 Structures	Sup. GY7020/2024 clad, (0)	T6III-10-23-AL5-12
847 Structures	Sup. GY7020/2024 clad, (0)	T6III-10-22-AL5-11

DB#	Application	Description	Sample ID
846	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-21-AL5-5
845	Structures	Strip, GY70/201/2024 clad, (0)	T6III-10-20-AL3-5
844	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-19-AL4-4
843	Structures	Strip, GY70/201/2024 clad, (90)	T6III-10-18-AL4-3
842	Structures	Strip, P55/6061/6061Al, (90) epsl. meas., SG16	T6III-10-17-AL15-4
841	Structures	Strip, P55/6061/6061Al, (0) epsl. meas., SG17, CTS1	T6III-10-16-AL14-11
840	Structures	Strip, GY70/201/2024 clad, (0) epsl. meas., SG18	T6III-10-15-AL3-12
839.02	Structures	Wire, P100/AZ31B (Ti + B)	T6III-10-14-22
839.01	Structures	Wire, P100/AZ31B (Ti + B)	T6III-10-14-21
838.04	Structures	Wire, P55 (10K) 6061Al	T6III-10-14-20
838.03	Structures	Wire, P55 (10K) 6061Al	T6III-10-14-19
838.02	Structures	Wire, P55 (10K) 6061Al	T6III-10-14-18
838.01	Structures	Wire, P55 (10K) 6061Al	T6III-10-14-17
837.04	Structures	Wire, P100/6061Al (Ti + B)	T6III-10-14-16
837.03	Structures	Wire, P100/6061Al (Ti + B)	T6III-10-14-15
837.02	Structures	Wire, P100/6061Al (Ti + B)	T6III-10-14-14
837.01	Structures	Wire, P100/6061Al (Ti + B)	T6III-10-14-13
836	Structures	Wire, T300/6061Al	T6III-10-14-12
835	Structures	Wire, T300/6061Al	T6III-10-13-11
834.02	Structures	Wire, P55/6061 (Ti + B)	T6III-10-13-10
834.01	Structures	Wire, P55/6061Al (Ti + B)	T6III-10-13-9
833.02	Structures	Wire, GY70 (8T)/201	T6III-10-13-8
833.01	Structures	Wire, GY70 (8T)/201	T6III-10-13-7
832.02	Structures	Wire, P55 (TiO2)/6061 Al (Ti + B)	T6III-10-13-6
832.01	Structures	Wire, P55 (TiO2)/6061 Al (Ti + B)	T6III-10-13-5
831.04	Structures	Wire, P100/AZ61Z (Ti + B)	T6III-10-13-4
831.03	Structures	Wire, P100/AZ61A (Ti + B)	T6III-10-13-3
831.02	Structures	Wire, P100/AZ61A (Ti + B)	T6III-10-13-2
831.01	Structures	Wire, P100/AZ61A (Ti + B)	T6III-10-13-1
830	Structures	Strip, GY70/201/2024 clad, (0/±60°)s, epsilon meas., SG19	T6III-10-12-AL7-4
829	Structures	Strip, P100/EZ33A/AZ31B (6 ply), epsil. meas., SG20	T6III-10-11-MG7-6
828.01	Structures	Strip, GY70/201/2024 clad (0/±60°)s	T6III-10-10-AL7-6
828	Structures	Strip, P75S/934	T6III-9-10-CM48-4
827	Structures	Strip, P75S/934	T6III-9-10-CM48-1
826	Structures	Strip, P75S/F593	T6III-9-9-CM47-6
825	Structures	Strip, P75S/F593	T6III-9-9-CM47-3
824.5	Structures	VS0054/EZ33A/AZ31B: [0/±60°]s	T6III-10-9-MG7
823	Structures	Graphite/glass: Celson 6000/borosilicate glass	T6III-10-7-GL2-2
816	Structures	HA-43 polyarylaceylene/ polyphenylquinoxylene blend/Low temp PAN composite	T3IV-16-90-D
815	Structures	HA-43 polyarylaceylene (PAA)/polyphenylquinoxylene (PPO) blend/T300 carbon fabric composite	T3IV-16-89-C
814	Structures	Aerospace polyarylaceylene (PAA)/T300 carbon fabric composite	T3IV-16-88-B
813	Structures	HA-43 polyarylaceylene (PAA)/T300 carbon fabric composite	T3IV-16-87-A
796.5	Structures	Various materials, composites and metals	T3-V

Q&A Application	Description	Sample ID
790 Structures	Graphite/epoxy (conditioned) (T-300 unidirectional tape/Fiberite EA 934 epoxy resin [0°])	T3IV-8-68-103
793 Structures	Graphite/polysulfone (T-300 P-1700 polysulfone resin [0°/90°])	T3IV-8-67-25
761 Structures	E glass fabric/CE-339 [(0)16]T, 250°F	T3IV-9-35-CM39b
760 Structures	KEVLAR/epoxy K49 fabric/X904B [(0)16]T, 350°F	T3IV-9-34-CM37b
759 Structures	HMF 176/24 fabric [(0)2/(90)2]T, 350°F	T3IV-9-33-CM41q
758 Structures	HMF 176/24 fabric [(0)16]T, 350°F	T3IV-9-32-CM22b
757 Structures	Celcon 6000/E788 [(0)16]T, 350°F	T3IV-9-31-CM29b
756 Structures	T-50/F263 [(0)16]T, 300°F	T3IV-9-30-CM43b
755 Structures	HMF 176/24 (±45)CS, 350°F	T3IV-9-29-CM34a
754 Structures	T-50(PAN)/E788 [(0)16]T, 350°F	T3IV-9-28-CM17b
753 Structures	T-50(PAN)/X904B-10 [(0)16]T, 350°F	T3IV-9-27-CM13a
752 Structures	T-50(PAN)/934 [(0)16]T, 350°F	T3IV-9-26-CM9b
751 Structures	T50/F263 [(0)16]T, 350°F	T3IV-9-25-CM5b
750 Structures	GY70/CE-339 [(0)16]T, 250°F	T3IV-9-24-CM1a
722 Structures	Celcon 6000/E788[(±45)2/(±45)4]T, 350°F	T3III-9-70-CM31b
721 Structures	T-50/F263 [(±45)2/(±45)4]T, 300°F	T3III-9-69-CM45a
720 Structures	KEVLAR/epoxy K49 fabric/X904B (±45)AS, 350°F	T3III-9-68-CM38a
719 Structures	T-50(PAN)/E788[(±45)2/(±45)4]T, 350°F	T3III-9-67-CM19d
718 Structures	T-50(PAN)/X904B-10[(±45)2/(±45)4]T, 350°F	T3III-9-66-CM15c
717 Structures	T-50(PAN)/934[(±45)2/(±45)4]T, 350°F	T3III-9-65-CM11a
716 Structures	T50/F263[(±45)2/(±45)4]T, 350°F	T3III-9-64-CM7d
715 Structures	GY70/CE-339[(±45)2/(±45)4]T, 250°F	T3III-9-63-CM3d
710 Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	T3III-8-58-S3
709 Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	T3III-8-57-S15
708 Structures	Graphite/epoxy (T-300 unidirectional tape/Fiberite EA934 epoxy resin [0°])	T3III-8-56-11
707 Structures	Graphite/polymide (HTS-2 unidirectional tape/PMR 15 [0°])	T3III-8-55-31
706 Structures	Three-dimensional quartz phenolic	T3III-3-54-II
705 Structures	Three-dimensional quartz phenolic	T3III-3-53-II
704 Structures	Graphite polysulfone	T3III-3-52-IV
703 Structures	Graphite polysulfone	T3III-3-51-IV
702 Structures	Tape-wrapped carbon phenolic	T3III-3-50-I
701 Structures	Tape-wrapped carbon phenolic	T3III-3-49-I
700 Structures	Pyrolytic carbon, Pyro-Carb 431	T3III-3-48-VII
699 Structures	Pyrolytic carbon, Pyro-Carb 431	T3III-3-47-VII
698 Structures	Aluminum 6061-T6	T3III-3-46-V
697 Structures	Aluminum 6061-T6	T3III-3-45-V
694 Structures	Aluminum 2024, AlCu alloy	T3III-3-42-IIIa
693 Structures	Aluminum 2024, AlCu alloy	T3III-3-41-IIIa
692 Structures	Special carbon/fungsten-bearing resin	T3III-3-40-IV
691 Structures	Special carbon/fungsten-bearing resin	T3III-3-39-IV
690 Structures	Graphite polymide	T3III-3-38-III
689 Structures	Graphite polymide	T3III-3-37-III
680 Structures	Celcon 6000/E788[(0)2/(90)2]T, 350°F	T3III-9-28-CM32b

DB#	Application	Description	Sample ID
679	Structures	T50/F263 [(0)2/(90)2]T, 300°F	T3III-9-27-CM46a
678	Structures	HMS/3501-5A[(0)2/(90)2]T, 290°F	T3III-9-26-CM28b
677	Structures	T-50(PAN)/E788[(0)2/(90)2]T, 350°F	T3III-9-25-CM20a
676	Structures	T-50(PAN)/X904B-10[(0)2/(90)2]T, 350°F	T3III-9-24-CM16b
675	Structures	T-50(PAN)/934[(0)2/(90)2]T, 350°F	T3III-9-23-CM12b
670	Structures	Celion 6000/E788[+45/(-45)2/+45]4T, 350°F	T3III-9-18-CM31a
669	Structures	T-50/F263 [+45/(-45)2/+45]4T, 300°F	T3III-9-17-CM45b
668	Structures	KEVLAR/epoxy K49 fabric/X904B (+45)4S, 350°F	T3III-9-16-CM38b
667	Structures	T-50(PAN)/E788[+45/(-45)2/+45]4T, 350°F	T3III-9-15-CM19c
666	Structures	T-50(PAN)/X904B-10[+45/(-45)2/+45]4T, 350°F	T3III-9-14-CM15b
665	Structures	T-50(PAN)/934[+45/(-45)2/+45]4T, 350°F	T3III-9-13-CM11d
664	Structures	T50/F263 [+45/(-45)2/+45]4T, 350°F	T3III-9-12-CM7c
663	Structures	GY70/CE-339(+45/-45/+45)4T, 250°F	T3III-9-11-CM3c
662	Structures	Celion 6000/E788[(0)2/(90)2]4T, 350°F	T3III-9-10-CM30a
661	Structures	T50/F263 [(0)2/(90)2]4T, 250°F	T3III-9-9-CM44b
660	Structures	KEVLAR/epoxy K49 fabric/X904B [(0)2/(90)2]T, 350°F	T3III-9-8-CM42a
659	Structures	T-50(PAN)/E788[(0)2/(90)2]4T, 350°F	T3III-9-7-CM18b
658	Structures	T-50(PAN)/X904B-10[(0)2/(90)2]4T, 350°F	T3III-9-6-CM14b
657	Structures	T-50(PAN)/934[(0)2/(90)2]4T, 350°F	T3III-9-5-CM10a
656	Structures	T50/F263 [(0)2/(90)2]T, 350°F	T3III-9-4-CM8b
655	Structures	T50/F263 [(0)2/(90)2]4T, 350°F	T3III-9-3-CM6a
654	Structures	GY70/CE 339, [(0)2/(90)2]T, 250°F	T3III-9-2-CM4b
653	Structures	GY70/CE-339, [(0)2/(90)2]4T, 250°F	T3III-9-1-CM2a
652	Structures	HA-43 polyarylaceylene (PAA)/polybenzimidazole fiber (PBI) composite	T3III-16-76-G
651	Structures	Polyphenylquinoxaline (PPO) film on Al	T3III-18-75-Y
634	Structures	Composite (unknown fiber/matrix)	T3II-16-58-F
519	Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	L6VI-8-20-S5
518	Structures	Silicon nitride foam	L6VI-8-19-F1
517	Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	L6VI-8-18-S4
499	Structures	Strip, VSB32/6061-T6/6061 Al clad (0)	L6III-10-244-AL14-6
495	Structures	Strip, GY70/934 (0/45/90/135)S2	L6III-10-240-EP13-13
492	Structures	Strip, Graphite/LARC-160	L6III-10-237-P12-7
491	Structures	Strip, Graphite/LARC-160	L6III-10-236-P12-6
490	Structures	Strip, Graphite/LARC-16	L6III-10-235-P12-5
489	Structures	Strip, T300 Fabric/P1700 (0, 90)	L6III-10-234-PS1-11
488	Structures	Strip, T300/V378A (16 ply)	L6III-10-233-P15-9
487	Structures	Strip, T300/V378A (16 ply)	L6III-10-232-P15-8
486	Structures	Strip, T300/V378A (16 ply)	L6III-10-231-P15-7
485	Structures	Strip, P75S/CE-339 (0/45/90/135)S4	L6III-10-230-EP21-6
484	Structures	Strip, P75S/CE-339 (0/45/90/135)S4	L6III-10-229-EP21-5
483	Structures	Strip, SiC fibers/Al	L6III-10-228-AL32-2
482	Structures	Strip, SiC fibers/Al	L6III-10-227-AL32-1
481	Structures	Strip, SiC whiskers/2124	L6III-10-226-AL30-4

DB#	Application	Description	Sample ID
480	Structures	Snip. SC whiskers/6061	L6III-10-225-AL31-2
479	Structures	Snip. GY70CE-339 (0/45/90/135)S2	L6III-10-224-EP22-9
478	Structures	Snip. GY70X-30 (0/45/90/135)4	L6III-10-223-EP2-4
477	Structures	Snip. GY70X-30/50-in. cut (0/45/90/135)4	L6III-10-222-EP2-3
476	Structures	Snip. P75SCE-339 (0/45/90/135)S4	L6III-10-221-EP21-15
475	Structures	Snip. P100AZ91C/AZ61A (0)	L6III-10-220-MG9-L5
474	Structures	Snip. P100AZ91C/AZ61A (0)	L6III-10-219-MG9-L3
471	Structures	Snip. V50054E233A/AZ31B (0)	L6III-10-216-MG3-15
470	Structures	Snip. V50054E233A/AZ31B clad. (90)	L6III-10-215-MG5-15
469	Structures	Snip. V50054E233A/AZ31B clad. (90)	L6III-19-214-MG6-2
468	Structures	Snip. V50054E233A/AZ31B (90)	L6III-10-213-MG6-8
464	Structures	Snip. Graphite glass: Celson 6000/borosilicate glass	L6III-10-209-GL3-2
463	Structures	Snip. T300 Fabric/P-1700 (0, 90)	L6III-10-208-PS1-6
462	Structures	Snip. T300 Fabric/P-1700 (0, 90)	L6III-10-207-PS1-5
461	Structures	Snip. GY70X/904B. [(+45)/(+45)2/+45]4t	L6III-10-206-EP7-3
460	Structures	Snip. GY70X/904B. (0°/90°/90°)	L6III-10-205-EP6-3
459	Structures	Snip. GY70X/904B. (0°)	L6III-10-204-EP5-3
458	Structures	Snip. HMS/3501-5A [(0°/16)1]	L6III-10-203-EP9-2
457	Structures	Snip. HMS/3501-5A. [(0°/90)2/20]4t	L6III-10-202-EP8-2
456	Structures	Snip. HMS/3501-5A [(+45)/(+45)2/+45]4t	L6III-10-201-EP11-2
455	Structures	Snip. T-300/3208	L6III-10-200-EP16-2
454	Structures	Snip. E-glass 120 Fabric/X904B. (0)	L6III-10-199-EP10-3
453	Structures	Snip. T300/2 mil-3M 113 viscoelastic tape/5208	L6III-10-198-EP17-1
452	Structures	Snip. GY70/934 (0/45/90/135)S2	L6III-10-197-EP13-6
451	Structures	Snip. V50054E233A/AZ31B clad (0)	L6III-10-196-MG5-8
450	Structures	Snip. V50054E233A/AZ31BA clad (0)	L6III-10-195-MG3-3
449	Structures	Snip. V50054E233A/AZ31B. (0)	L6III-10-194-MG5-2
448	Structures	Snip. GY70/934 (0/45/90/135)S2	L6III-10-193-EP13-5
447	Structures	Snip. V50054E233A/AZ31B. (90)	L6III-10-192-MG4-2
446	Structures	Snip. P100/201/2024 Al. [(+20°/-20°)S	L6III-10-191-AL33-4
445	Structures	Snip. V50054E233A/AZ31B. (0)	L6III-10-190-MG3-2
444	Structures	Snip. P100/201/2024 Al. [(+20°/-20°)S	L6III-10-189-AL33-3
443	Structures	Snip. GY70CE339 (0/45/90/135)S2	L6III-10-188-EP22-3
442	Structures	Snip. V5832/6061-T6/6061 Al clad. (90)	L6III-10-187-AL15-9
441	Structures	Snip. V5832/6061-T6/6061 Al clad. (90)	L6III-10-186-AL15-2
440	Structures	Snip. V5832/6061-T6/6061 Al clad. (0)	L6III-10-185-AL14-15
439	Structures	Snip. V5832/6061-T6/6061 Al clad. (0)	L6III-10-184-AL14-2
438	Structures	Snip. V5832/6061-T6/6061 Al clad. (0)	L6III-17-183-AL14-9
437	Structures	Snip. Celson 6000/PMR-15. (0)	L6III-10-182-P11-7
436	Structures	Snip. AS/3501-6 (0)	L6III-10-181-EP4-10
435	Structures	Snip. AS/3501-6 (0)	L6III-10-180-EP4-9
434	Structures	Snip. AS/3501-6 (0)	L6III-10-179-EP4-8
433	Structures	Snip. P75S/934. (0/45/90/135)S2	L6III-10-178-EP12-6

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432	Structures	Strip, P75S/934, (0/45/90/135)S2	L6III-10-177-EP12-5
424	Structures	Strip, VS/0054/EZ33A/AZ31B clad (0°)	L6III-10-169-MG5-12
423	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	L6III-10-168-MG10-2
422	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	L6III-10-167-MG10-1
421	Structures	Strip, VSB32/6061-T6/6061 Al (0)	L6III-10-166-AL12-6
420	Structures	Strip, VSB32/6061-T6/6061 Al (0)	L6III-10-165-AL12-5
419	Structures	Strip, VSB32/6061-T6/6061 Al (0)	L6III-10-164-AL12-4
418	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-163-AL6-10
417	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-162-AL6-6
416	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-161-AL6-2
413	Structures	Strip, T300 lapel/934, (0)	L6III-10-158-EP3-9
412	Structures	Strip, T300 lapel/934, (0)	L6III-10-157-EP3-8
411	Structures	Strip, T300 lapel/934, (0)	L6III-10-156-EP3-7
408	Structures	Strip, W-722(Graphite/Glass fabric)/P1700	L6III-10-153-PS2-9
407	Structures	Strip, W-722(Graphite/Glass fabric)/P1700	L6III-10-152-PS2-8
406	Structures	Strip, W-722(Graphite/Glass fabric)/P1700	L6III-10-151-PS2-7
405	Structures	Strip, Invar LR35	L6III-10-150-SS1-8
404	Structures	Strip, GY70/CE339 (0/45/90/135)S2	L6III-10-149-EP22-11
402	Structures	Strip, GY70/X-30, (0/45/90/135)4	L6III-10-147-EP1-6
401	Structures	Strip, GY70/X-30, (0/45/90/135)4	L6III-10-146-EP1-5
400	Structures	Strip, GY70/201/2024 clad, (0°)	L6III-10-145-AL5-10
399	Structures	Strip, GY70/201/2024 clad, (0°)	L6III-10-144-AL5-4
398	Structures	Strip, GY70/201/2024 clad, (0°)	L6III-10-143-AL5-3
397	Structures	Strip, VSB32/6061-T6/6061 Al clad, (90°)	L6III-10-142-AL15-10
396	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-141-AL4-6
395	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-140-AL4-5
394	Structures	Strip, GY70/201/2024 clad, (0°)	L6III-10-139-AL3-9
393	Structures	Strip, GY70/201/2024 clad, (0°)	L6III-10-138-AL3-8
391.04	Structures	Wire, SiC/6061 Al	L6III-10-136-14
391.03	Structures	Wire, SiC/6061 Al	L6III-10-136-13
391.02	Structures	Wire, SiC/6061 Al	L6III-10-136-12
391.01	Structures	Wire, SiC/6061 Al	L6III-10-136-11
390	Structures	Wire, SiC/6061 Al	L6III-10-135-10
389	Structures	Wire, P55 (10K)/ AZ91C	L6III-10-135-9
388	Structures	Wire, P100/AZ31B (Ti + B)	L6III-10-135-8
387	Structures	Wire, P55 (10K)/6061 Al	L6III-10-135-7
386	Structures	Wire, P100/6061 Al (Ti + B)	L6III-10-135-6
385	Structures	Wire, T300/6061Al	L6III-10-135-5
384	Structures	Wire, P55/6061Al (Ti + B)	L6III-10-135-4
383	Structures	Wire, GY70 (8T)/201	L6III-10-135-3
382	Structures	Wire, P55 (Ti02)/6061 Al (Ti + B)	L6III-10-135-2
381	Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-135-1
380	Structures	Strip, P75S/F593, 102-270	L6III-9-134-C47-12

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379	Structures	Strip, P75S/F593, 102-270	L6III-9-134-C47-9
378	Structures	Strip, P75S/934, 102-15A	L6III-9-133-C48-10
377	Structures	Strip, P75S/934, 102-15A	L6III-9-133-C48-7
376	Structures	Strip, GY70/201/2024 clad, (0/±60°)s	L6III-10-132-AL7-5
375	Structures	Strip, VS0054/EZ33A/AZ31B clad, (0/±60°)s	L6III-10-131-MG7-7
374	Structures	Mirror, GY70/201/2024 clad (0/±60°)s	L6III-10-130-AL8-2
367	Structures	Mirror, GY70/201/2024 clad(0/±60°)s	L6III-10-123-AL8-4
366	Structures	Strip, Celion 6000/polyimide	L6III-10-122-P13
365	Structures	Strip, graphite/LARC 160	L6III-10-121-P12-3
364	Structures	Strip, AS/3501-6 (0)	L6III-10-120-EP4-5
363	Structures	Strip, T300 Fabric/P1700, (0/90)	L6III-10-119-PS1-9
362	Structures	Strip, T300/V378A (0/45/90/135)S2	L6III-10-118-PI5-4
361	Structures	Strip, T300/V378A (0/45/90/135)S2	L6III-10-117-PI5-1
360	Structures	Strip, SiC fibers/Al	L6III-10-116-AL32-8
359	Structures	Strip, P75S/CE339 (0/45/90/135)S4	L6III-10-115-EP21-2
358	Structures	Strip, P75S/CE399 (0/45/90/135)S4	L6III-10-114-EP21-1
357	Structures	Strip, P100/201/2024 (+20°/-20°)S	L6III-10-113-AL33-6
356	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	L6III-10-112-MG10-7
355	Structures	Strip, P100/AZ91C/AZ61A (+10°/-10°)S	L6III-10-111-MG10-5
354	Structures	Strip, GY70/CE339 (0/45/90/135)S2	L6III-10-110-EP22-7
352	Structures	Strip, T300/P1700/Al flake	L6III-10-108-PS9
350	Structures	Strip, P100/201/2024 (+20°/-20°)S	L6III-10-106-AL33-2
349	Structures	Strip, Graphite/LARC-160, epsilon meas., SG1	L6III-10-105-PI2-1
348	Structures	Strip, T300/V378A, epsilon meas., SG2 (0/45/90/135)S2	L6III-10-104-PI5-2
347	Structures	Strip, T300/polyether sulfone, epsilon meas., SG3	L6III-10-103-PS11-1
346	Structures	Strip, GY70/X-30/Sn-In eut. (0/45/90/135)4 epsilon meas., SG4	L6III-10-102-EP1-1
345	Structures	Strip, Celion 6000/PMR-15, epsilon meas., SG5 (0)	L6III-10-101-PI1-1
344	Structures	Strip, AS/3501-6(0) epsilon meas., SG6	L6III-10-100-EP4-2
343	Structures	Strip, GY70/X-30/Sn-In eut.(0/45/90/135)4	L6III-10-99-EP2-2
342	Structures	Strip, GY70/X-30/Sn-In eut. (0/45/90/135)4	L6III-10-98-EP2-1
341	Structures	Strip, graphite/glass: Celion 6000/borosilicate glass	L6III-10-97-GL3-1
340	Structures	Strip, SiC whiskers/2124 Al	L6III-10-96-AL30-2
339	Structures	Strip, SiC whiskers/6061 Al	L6III-10-95-AL31-1
338	Structures	Strip, VS0054/EZ33A/AZ31B clad, (90)	L6III-10-94-MG6-9
337	Structures	Strip, SiC fibers/Al	L6III-10-93-AL32-4
336	Structures	Strip, VS0054/EZ33A/AZ31B clad, (90)	L6III-10-92-MG6-1
335	Structures	Strip, T300 Fabric/P1700, (0,90)	L6III-10-91-PS1-3
334	Structures	Strip, GY70/CE339 (0/45/90/135)S2	L6III-10-90-EP22-1
333	Structures	Strip, Celion 6000/PMR-15(0)	L6III-10-89-PI1-4
332	Structures	Strip, Celion 6000/PMR-15 (0)	L6III-10-88-PI1-3
331	Structures	Strip, HMS/3501-5A, (0)	L6III-10-87-EP9-1
330	Structures	Strip, HMS/3501-5A, (0/90/90/0)4	L6III-10-86-EP8-1
329	Structures	Strip, GY70/X9048, [+45/(-45)2/-45]4	L6III-10-85-EP7-1

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328	Structures	Strip, GY70/X904B, (0/90/90/0)	L6III-10-84-EP6-1
327	Structures	Strip, GY70/X904B, (0)	L6III-10-83-EP5-1
324	Structures	Strip, E-glass 120 Fabric/X904B, (0)	L6III-10-89-EP10-1
323	Structures	Strip, VSB32/6061-T6/6061 Al clad (0)	L6III-10-79-AL14-14
322	Structures	Strip, VSB32/6061-T6/6061 Al clad (0)	L6III-10-78-AL14-1
320	Structures	Strip, GY70/934 (0/45/90/135)S2	L6III-10-76-EP13-2
319	Structures	Strip, VS0054/EZ33A/AZ31B clad, (0)	L6III-10-75-MG5-6
318	Structures	Strip, GY70/201/2024 clad (90)	L6III-10-74-AL6-9
317	Structures	Strip, P100/AZ91C/AZ61A (90)	L6III-10-73-MG9-T6
316	Structures	Strip, GY70/934 (0/45/90/135)S2	L6III-10-72-EP13-1
315	Structures	Strip, VS0054/EZ33A/AZ31B clad, (0)	L6III-10-71-MG3-1
314	Structures	Strip, P100/AZ91C/AZ61A (90)	L6III-10-70-MG9-T2
313	Structures	Strip, VS0054/EZ33A/AZ31B clad, (0)	L6III-10-69-MG3-5
312	Structures	Strip, T300 Fabric/P1700, epsilon meas., SG7, [0/90]	L6III-10-68-PS1-1
311	Structures	Strip, W-722(Graphite/Glass fabric)/P1700, epsilon meas., SG8	L6III-10-67-PS2-1
310	Structures	Strip, T300 tape/934 (0), epsilon meas., SG9, CTS 1	L6III-10-66-EP3-1
308	Structures	Strip, Invar LR35, epsilon meas., SG11, CTS 2	L6III-10-64-SS1-3
307	Structures	Strip, Invar LR35, epsilon meas., SG12	L6III-10-63-SS1-1
304	Structures	Strip, VSB32/6061-T6/6061 Al clad, (0)	L6III-10-60-AL12-3
303	Structures	Strip, VSB32/6061-T6/6061 Al clad, (0)	L6III-10-59-AL12-2
302	Structures	Strip, W-722(Graphite/Glass fabric)/P1700	L6III-10-58-PS2-3
301	Structures	Strip, AS/3501-6 (0)	L6III-10-57-EP4-4
300	Structures	Strip, P75S/934 (0/45/90/135)S2	L6III-10-56-EP12-2
299	Structures	Strip, P75S/934 (0/145/90/135)S2	L6III-10-55-EP12-1
298	Structures	Strip, graphite/glass: Celion 6000/borosilicate glass	L6III-10-54-GL1-1
291	Structures	Strip, P100/AZ91C/AZ61A (0°)	L6III-10-47-MG9-L2
288	Structures	Strip, GY70/201/2024 clad (90)	L6III-10-44-AL6-5
287	Structures	Strip, GY70/201/2024 clad (90)	L6III-10-43-AL6-1
286	Structures	Strip, VSB32/6061-T6 Al/6061 clad (0)	L6III-10-42-AL12-1
285	Structures	Strip, VS0054/EZ33A/AZ31B (0), epsl. meas., SG13 clad	L6III-10-41-MG5-23
284	Structures	Strip, VS0054/EZ33A/AZ31B (0), epsl. meas., SG14, CTS3	L6III-10-40-MG3-17
283	Structures	Strip, VSB32/6061-T6 Al/6061 clad (90), epsl. meas., SG15	L6III-10-39-AL15-8
282.18	Structures	Wire, SiC/6061 Al	L6III-10-38-44
282.17	Structures	Wire, SiC/6061 Al	L6III-10-38-43
282.16	Structures	Wire, SiC/6061 Al	L6III-10-38-42
282.15	Structures	Wire, SiC/6061 Al	L6III-10-38-41
282.14	Structures	Wire, SiC/6061 Al	L6III-10-38-40
282.13	Structures	Wire, SiC/6061 Al	L6III-10-38-39
282.12	Structures	Wire, SiC/6061 Al	L6III-10-38-38
282.11	Structures	Wire, SiC/6061 Al	L6III-10-38-37
282.1	Structures	Wire, SiC/6061 Al	L6III-10-38-36
282.09	Structures	Wire, SiC/6061 Al	L6III-10-38-35
282.08	Structures	Wire, SiC/6061 Al	L6III-10-38-34

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282.07	Structures	Wire, SiC/6061 Al	L6III-10-38-33
282.06	Structures	Wire, SiC/6061 Al	L6III-10-38-32
282.05	Structures	Wire, SiC/6061 Al	L6III-10-38-31
282.04	Structures	Wire, SiC/6061 Al	L6III-10-38-30
282.03	Structures	Wire, SiC/6061 Al	L6III-10-38-29
282.02	Structures	Wire, SiC/6061 Al	L6III-10-38-28
282.01	Structures	Wire, SiC/6061 Al	L6III-10-38-27
281.03	Structures	Wire, P55 (10K)/AZ91C	L6III-10-37-26
281.02	Structures	Wire, P55 (10K)/AZ91C	L6III-10-37-25
281.01	Structures	Wire, P55 (10K)/AZ91C	L6III-10-37-24
280	Structures	Wire, P100/AZ31B (Ti + B)	L6III-10-37-23
279	Structures	Strip, P100/AZ91C/AZ61A, (0°)	L6III-10-36-MG9-L1
278	Structures	Strip, T300 tape/934, (0)	L6III-10-35-EP3-4
277	Structures	Strip, T300 tape/934, (0)	L6III-10-34-EP3-3
274	Structures	Strip, W-722 (Graphite/Glass fabric)/P1700	L6III-10-31-PS2-4
271	Structures	Strip, Invar LR-35	L6III-10-28-SS1-7
268	Structures	Strip, GY70/201/2024 clad, (0), (1 ply)	L6III-10-25-AL5-2
267	Structures	Strip, GY70/X-30 [0/45/90/135]4	L6III-10-24-EP1-2
266	Structures	Strip, GY70/201/2024 clad, (0), (1 ply)	L6III-10-23-AL5-1
265	Structures	Strip, GY70/201/2024 clad, (0), (1 ply)	L6III-10-22-AL5-9
264	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-21-AL4-2
263	Structures	Strip, GY70/201/2024 clad, (90°)	L6III-10-20-AL4-1
262	Structures	Strip, GY70/201/2024 clad, (0), (1 ply)	L6III-10-19-AL3-4
261	Structures	Strip, GY70/201/2024 clad, (0), (1 ply)	L6III-10-18-AL3-3
260	Structures	Strip, VSB32/6061-T6/6061 Al clad, (90°), epsl. meas., SG16	L6III-10-17-AL15-1
259	Structures	Strip, VSB32/6061-T6/6061 Al clad (0) (1 ply), SG17, CTS4, epsl. meas.	L6III-10-16-AL14-10
258	Structures	Strip, GY70/201/2024 clad (1 ply), (0), epsl. meas., SG18	L6III-10-15-AL3-2
257.02	Structures	Wire, P100/AZ31B (Ti + B)	L6III-10-14-22
257.01	Structures	Wire, P100/AZ31B (Ti + B)	L6III-10-14-21
256.04	Structures	Wire, P55(10K)6061Al	L6III-10-14-20
256.03	Structures	Wire, P55(10K)6061Al	L6III-10-14-19
256.02	Structures	Wire, P55(10K)6061Al	L6III-10-14-18
256.01	Structures	Wire, P55(10K)6061Al	L6III-10-14-17
255.04	Structures	Wire, P100/6061Al (Ti + B)	L6III-10-14-16
255.03	Structures	Wire, P100/6061Al (Ti + B)	L6III-10-14-15
255.02	Structures	Wire, P100/6061Al (Ti + B)	L6III-10-14-14
255.01	Structures	Wire, P100/6061Al (Ti + B)	L6III-10-14-13
254	Structures	Wire, T300/6061Al	L6III-10-14-12
253	Structures	Wire, T300/6061 Al	L6III-10-13-11
252.02	Structures	Wire, P55/6061Al (Ti + B)	L6III-10-13-10
252.01	Structures	Wire, P55/6061Al (Ti + B)	L6III-10-13-9
251.02	Structures	Wire, GY70(8T)/201	L6III-10-13-8
251.01	Structures	Wire, GY70(8T)/201	L6III-10-13-7

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250.02	Structures	Wire, P55(TiO2)/6061Al (Ti + B)	L6III-10-13-6
250.01	Structures	Wire, P55(TiO2)/6061Al (Ti + B)	L6III-10-13-5
249.04	Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-13-4
249.03	Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-13-3
249.02	Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-13-2
249.01	Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-13-1
248	Structures	Strip, GY70/201/2024 (6 ply) clad, SG19 [0 ± 60°]s, epsl. meas.	L6III-10-12-AL7-1
247	Structures	Strip, VS0054/EZ33A/AZ31B clad, [0 ± 60°]s (6 ply), epsl. meas., SG 20	L6III-10-11-MG7-1
246	Structures	Strip, GY70/201/2024 clad [0 ± 60°]s (6 ply)	L6III-10-10-AL7-2
245	Structures	Strip, VS0054/EZ33A/AZ31B clad [0 ± 60°]s (6 ply)	L6III-10-9-MG7-3
236	Structures	HA-43 polyarylate/epoxy (PAA)/polyphenylquinoxaline (PPQ) blend/T300 carbon fabric composite	L3IV-16-74-C
235	Structures	Aerospace polyarylate/epoxy (PAA)/T300 carbon fabric composite	L3IV-16-73-B
234	Structures	HA-43 polyarylate/epoxy (PAA)/T300 carbon fabric composite	L3IV-16-72-A
233	Structures	HA-43 polyarylate/epoxy/polyphenylquinoxaline blend/Low temp PAN composite	L3IV-16-71-D
230	Structures	Graphite/epoxy (conditioned) (T-300 unidirectional tape/Fiberite EA 934 epoxy resin [0°])	L3IV-8-68-12
229	Structures	Graphite/polysulfone (T-300/ P-1700 polysulfone resin [0°/90°])	L3IV-8-67-24
197	Structures	E glass fabric/CE-339 ((0)16)T, 250°F	L3IV-9-35-CM39
196	Structures	KEVLAR/epoxy K49 fabric/X904B ((0)16)T, 350°F	L3IV-9-34-CM37a
195	Structures	HMF 176/34 fabric ((0)2(90)2)T, 350°F	L3IV-9-33-CM41b
194	Structures	HMF176/34 fabric ((0)16)T, 350°F	L3IV-9-32-CM33a
193	Structures	Celion 6000/E788 ((0)16)T, 350°F	L3IV-9-31-CM29a
192	Structures	T-50/F263 ((0)4)T, 300°F	L3IV-9-30-CM43a
191	Structures	HMF 176/34 fabric (+45)4S, 350°F	L3IV-9-29-CM34c
190	Structures	T-50 (PAN)/E788 ((0)16)T, 350°F	L3IV-9-28-CM17a
189	Structures	T-50(PAN)/X904B-10 ((0)16)T, 350°F	L3IV-9-27-CM13b
188	Structures	T-50(PAN)/934 ((0)16)T, 350°F	L3IV-9-26-CM9a
187	Structures	T-50/F263 ((0)16)T, 350°F	L3IV-9-25-CM5a
186	Structures	GY70/CE-339, ((0)16)T, 250°F	L3IV-9-24-CM1b
162	Structures	Composite (unknown fiber/matrix)	L3III-16-75-E
157	Structures	Celion 6000/E788(+45/(-45)2/+45)4T, 350°F	L3III-9-70-CM31c
156	Structures	T-50/F263 (+45/(-45)2/+45)4T, 300°F	L3III-9-69-CM45c
155	Structures	KEVLAR/epoxy K49 fabric/X904B (+45)4S, 350°F	L3III-9-68-CM38d
154	Structures	T-50(PAN)/E788(+45/(-45)2/+45)4T, 350°F	L3III-9-67-CM19b
153	Structures	T-50(PAN)/X904B-10(+45/(-45)2/+45)4T, 350°F	L3III-9-66-CM15a
152	Structures	T-50(PAN)/934(+45/(-45)2/+45)4T, 350°F	L3III-9-65-CM11b
151	Structures	T-50/F263(+45/(-45)2/+45)4T	L3III-9-64-CM7b
150	Structures	GY70/CE-339(+45/(-45)2/+45)4T, 250°F	L3III-9-63-CM3b
145	Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	L3III-8-58-S2
144	Structures	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	L3III-8-57-S12
143	Structures	Graphite/epoxy (T-300 unidirectional tape/Fiberite EA934 epoxy resin [0°])	L3III-8-56-10
142	Structures	Graphite/polyimide (HTS-2 unidirectional tape/PMR 15 [0°])	L3III-8-55-30
141	Structures	Three-dimensional quartz phenolic	L3III-3-54-II
140	Structures	Three-dimensional quartz phenolic	L3III-3-53-II

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139	Structures	Graphite polysulfone	L3III-3-52-IV
138	Structures	Graphite polysulfone	L3III-3-51-IV
137	Structures	Tape-wrapped carbon phenolic	L3III-3-50-I
136	Structures	Tape-wrapped carbon phenolic	L3III-3-49-I
135	Structures	Pyrolytic carbon, Pyro-Carb 431	L3III-3-48-VII
134	Structures	Pyrolytic carbon, Pyro-Carb 431	L3III-3-47-VII
133	Structures	Aluminum 6061-T6	L3III-3-46-V
132	Structures	Aluminum 6061-T6	L3III-3-45-V
129	Structures	Aluminum 2024, Al/Cu alloy	L3III-3-42-IIIa
128	Structures	Aluminum 2024, Al/Cu alloy	L3III-3-41-IIIa
127	Structures	Special carbon/lungsten-bearing resin	L3III-3-40-VI
126	Structures	Special carbon/lungsten-bearing resin	L3III-3-39-VI
125	Structures	Graphite polyimide	L3III-3-38-III
124	Structures	Graphite polyimide	L3III-3-37-III
115	Structures	Celion 6000/E788((0)2/(90)2)T, 350°F	L3III-9-28-CM32
114	Structures	T50/F263 (0)2/(90)2)T, 300°F	L3III-9-27-CM46
113	Structures	HMS/3501-5A((0)2/(90)2)T, 290°F	L3III-9-26-CM28
112	Structures	T-50(PAN)/E788((0)2/(90)2)T, 350°F	L3III-9-25-CM20
111	Structures	T-50(PAN)/X904B-10((0)2/(90)2)T, 350°F	L3III-9-24-CM16
110	Structures	T-50(PAN)/934 ((0)2/(90)2)T, 350°F	L3III-9-23-CM12
105	Structures	Celion 6000/E788(+45/(-45)2/+45)4T, 350°F	L3III-9-18-CM31d
104	Structures	T-50/F263 (+45/(-45)2/+45)4T, 300°F	L3III-9-17-CM45d
103	Structures	KEVLAR/epoxy 49 fabric/X904B (+45)4S, 350°F	L3III-9-16-CM38c
102	Structures	T-50(PAN)/E788(+45/(-45)2/+45)4T, 350°F	L3III-9-15-CM19a
101	Structures	T-50(PAN)/X904B-10(+45/(-45)2/+45)4T, 350°F	L3III-9-14-CM15d
100	Structures	T-50 (PAN)/934/+45/(-45)2/+45)4T, 350°F	L3III-9-13-CM11c
99	Structures	T50/F263 (+45/(-45)2/+45)4T	L3III-9-12-CM7a
98	Structures	GY70/CE-399 (+45/(-45)2/+45)4T, 250°F	L3III-9-11-CM3a
97	Structures	Celion 6000/E788(0/(90)2/0)4T, 350°F	L3III-9-10-CM30b
96	Structures	T-50/F263 (0/(90)2/0)4T, 300°F	L3III-9-9-CM44a
95	Structures	Kevlar/epoxy K49 fabric/X904B ((0)2/(90)2)T, 350°F	L3III-9-8-CM42b
94	Structures	T-50(PAN)/E788(0/(90)2/0)4T, 350°F	L3III-9-7-CM18a
93	Structures	T-50 (PAN)/X904B-10(90)2/0) 4T, 350°F	L3III-9-6-CM14a
92	Structures	T-50 (PAN)/934(0/(90)2/0)4T, 350°F	L3III-9-5-CM10c
91	Structures	T50/F263 ((0)2/(90)2)T, 350°F	L3III-9-4-CM8a
90	Structures	T50/F263 (0/(90)2/0)4T, 350°F	L3III-9-3-CM6b
89	Structures	GY70/CE 399, (0)2/(90)2)T, 250°F	L3III-9-2-CM4a
88	Structures	GY70/CE-399, (0/(90)2/0)4T, 250 °F	L3III-9-1-CM2b
83	Structures	Polyphenylquinoxaline (PPQ) film on Al	L3II-18-75-J
792	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joinu/Hysol EA 9628 epoxy	T3IV-8-66-11
791	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joinu/Hysol EA 9628 epoxy	T3IV-8-65-9
790	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joinu/Hysol EA 9628 epoxy	T3IV-8-64-7
726	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-74-AB2-14

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725	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-73-AB2-13
724	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-72-AB2-12
723	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-71-AB2-11
674	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-22-AB2-9
672	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-20-AB2-5
671	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-19-AB2-1
228	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	L3IV-8-66-12
227	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	L3IV-8-65-10
226	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	L3IV-8-64-8
161	Structures, adhesive bond	HMF 220C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-74-AB1-14
160	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-73-AB1-13
159	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-72-AB1-12
158	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-71-AB1-11
109	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-22-AB1-9
108	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-21-AB1-7
107	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-20-AB1-5
106	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	L3III-9-19-AB1-2
1105.25	Structures, insulation	Graphite polyimide/Astroquartz 550/BN fabric	T6VI-13-20-25A
1105.23	Structures, insulation	EOCFOAMQ	T6VI-13-20-23A
1105.22	Structures, insulation	Graphite polyimide/capacitive grid material/ceramic standoff/Astroquartz 581	T6VI-13-20-22A
1105.21	Structures, insulation	Graphite polyimide/Fiberfrax paper/Astroquartz 550/Astroquartz 581	T6VI-13-20-21A
824	Structures, optics	Mirror, GY70/201/2024 clad (0/±60°)s	T6III-10-8-AL8-8
1070	Structures, thermal control	Strip, T300/polyether sulfone/TiO2 coating	T6III-10-229-PS14-2
1016	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-175-PS4-12
1015	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-174-PS4-11
1014	Structures, thermal control	Rivoted lap W-722 (Graphite/Glass fabric)/P1700, ZnO coating	T6III-10-173-PS6-8
1012	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-171-PS4-10
1011	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-170-PS3-12
996	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-155-PS3-11
995	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-154-PS3-10
989	Structures, thermal control	Rivoted lap, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-148-PS5-8
933	Structures, thermal control	Strip, T300/polyether sulfone/TiO2 coating	T6III-10-107-PS14-1
925	Structures, thermal control	Strip, T300/polyether sulfone/ZnO coating	T6III-10-99-PS13-2
924	Structures, thermal control	Strip, T300/polyether sulfone/ZnO coating	T6III-10-98-PS13-1
908	Structures, thermal control	Rivoted lap, W-722 Graphite/Glass fabric/P1700/ZnO coating	T6III-10-82-PS6-6
907	Structures, thermal control	Rivoted lap, W-722 Graphite/Glass fabric/P1700/ZnO coating	T6III-10-81-PS6-5
904	Structures, thermal control	Strip, T300 fiber/5208/W-Al flake coating	T6III-10-78-EP14-1
503	Structures, thermal control	Strip, T300 fiber/5208/ZnO coating	T6III-10-77-EP15-2
879	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-53-PS4-6
878	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-52-PS4-5
877	Structures, thermal control	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-51-PS6-2
876	Structures, thermal control	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-50-PS5-6
875	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-49-PS4-2

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874	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-48-PS3-6
858	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-33-PS3-4
857	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-32-PS3-3
852	Structures, thermal control	Rivoted lap, 722(Graphite/Glass weave)/P1700/TiO2 coating	T6III-10-27-PS5-4
851	Structures, thermal control	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-26-PS5-3
592	Structures, thermal control	Polyphenylsulfone R-5000, 10 mil, Union Carbide	T3II-5-16-C16
591	Structures, thermal control	Polycarbonate, 5 mil	T3II-5-15-C15
590	Structures, thermal control	Tefzel 500AE, 5 mil	T3II-5-14-C14
589	Structures, thermal control	Nylon 6/6, 5 mil	T3II-5-13-C13
429	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-174-PS4-8
428	Structures, thermal control	Rivoted lap W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-173-PS6-7
427	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-172-PS4-9
426	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-171-PS4-7
425	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-170-PS3-9
410	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-155-PS3-8
409	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-154-PS3-7
403	Structures, thermal control	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-148-PS5-7
353	Structures, thermal control	Strip, T300/P1700/ZnO coating	L6III-10-109-PS10
351	Structures, thermal control	Strip, T300/P1700/TiO2 coating	L6III-10-107-PS8
326	Structures, thermal control	Rivoted lap, 722(Graphite/Glass weave) P1700/ZnO coating	L6III-10-82-PS6-4
325	Structures, thermal control	Rivoted lap, 722(Graphite/Glass fabric) P1700/ZnO coating	L6III-10-81-PS6-3
321	Structures, thermal control	Strip, T300/5208/ZnO coating	L6III-10-77-EP15-1
309	Structures, thermal control	Strip, T300/polysulfone/TiO2 coating, epsilon meas., SG10	L6III-10-65-PS7
297	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-53-PS4-4
296	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-52-PS4-3
295	Structures, thermal control	Rivoted lap W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-51-PS6-1
294	Structures, thermal control	Rivoted lap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-50-PS5-5
293	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/ZnO coating	L6III-10-49-PS4-1
292	Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-48-PS3-5
276	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-33-PS3-2
275	Structures, thermal control	Strip, W-722 (Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-32-PS3-1
270	Structures, thermal control	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-27-PS5-2
269	Structures, thermal control	Rivoted lap, W-722(Graphite/Glass fabric)/P1700/TiO2 coating	L6III-10-26-PS5-1
236.5	Structures, thermal control	Composite panel: graphite/934 [O2, ±45, O2, ±45, 90, 0]s, with 3 coatings: A276, Z306, S13GLO	L3-V
24	Structures, thermal control	Polyphenylsulfone R-5000, 10 mil, Union Carbide	L3II-5-16-C16
23	Structures, thermal control	Polycarbonate, 5 mil	L3II-5-15-C15
22	Structures, thermal control	Tefzel 500AE, 5 mil	L3II-5-14-C14
21	Structures, thermal control	Nylon 6/6, 5 mil	L3II-5-13-C13
673	Structures, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9-21-AB2-7
1105.24	Thermal control	Flexible dielectric stack: dielectric stack/Kapton	T6VI-13-20-24A
1105.09	Thermal control	Radiator coating: BaF2/Ag/Al	T6VI-13-20-09A
1105.08	Thermal control	Radiator coating: Boron nitride, grade HP	T6VI-13-20-08A
1105.06	Thermal control	Flexible reflector: Al2O3 (0.3255 µm)/Ag (0.2µ m)/ Al2O3 (0.0323 µm)/ Al foil	T6VI-13-20-06A

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1105.05	Thermal control	Flexible reflector: Al2O3(0.3255 µm)/ Ag(0.2µm)/Al2O3(0.0323 µm)/ 2 mil Kapton	T6VI-13-20-05A
1105.04	Thermal control	Flat solar reflector: Barrier anodize/ Al	T6VI-13-20-04A
1105.03	Thermal control	Flat solar reflector: Leaching Al paint (polysilicate binder)/ Al	T6VI-13-20-03A
1105.01	Thermal control	Flexible reflector : Denton silver/ Al	T6VI-13-20-01A
1099	Thermal control	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	T6VI-5-14-A8
1098	Thermal control	White paint, Z93, IITRI	T6VI-5-13-A13
1097	Thermal control	White paint, YB-71, IITRI	T6VI-5-12-A15
1096	Thermal control	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	T6VI-5-11-A17
1095	Thermal control	White paint, PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	T6VI-5-10-A19
1094	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	T6VI-5-9-A21
1093	Thermal control	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al General Electric	T6VI-5-8-A1
1092	Thermal control	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	T6VI-5-7-A7
1091	Thermal control	Kapton/Al, 5 mil, Sheldahl	T6VI-5-6-A11
1090	Thermal control	White paint, S13GLO, IITRI	T6VI-5-5-A14
1088	Thermal control	White paint, NS 43G, NASA Goddard Space Flight Center	T6VI-5-3-A16
1087	Thermal control	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	T6VI-5-2-A18
1086	Thermal control	White paint: TiO2/RTV 602, ML101, Air Force Materials Laboratory	T6VI-5-1-A20
954	Thermal control	Black oxide coating on 304 stainless steel substrate	T6III-9-128-TC19-4
952	Thermal control	GE-SHC 1010 coating on Al substrate	T6III-9-126-TC17-5
951	Thermal control	Vestair coating on Al substrate	T6III-9-125-TC16-8
950	Thermal control	JB-1 black coating on Ta substrate	T6III-9-124-TC15-29
949	Thermal control	LMSC modified Cotronics 931 coating on Ta substrate	T6III-9-123-TC14-9
822	Thermal control	Black oxide coating on 304 stainless steel substrate	T6III-9-6-TC19-3
820	Thermal control	GE-SHC 1010 coating on Al substrate	T6III-9-4-TC17-3
819	Thermal control	Vestair coating on Al substrate	T6III-9-3-TC16-7
818	Thermal control	JB-1 black coating on Ta substrate	T6III-9-2-TC15-25
817	Thermal control	LMSC modified Cotronics 931 coating on Ta substrate	T6III-9-1-TC14-6
795	Thermal control	Rhodium coated glassy carbon substrate	T3IV-15-69-Z2
787	Thermal control	Teflon FEP polymer coating: Spraylon 7075	T3IV-9-61-TC1
786	Thermal control	Teflon FEP polymer coating: Spraylon 7075	T3IV-9-60-TC1
785	Thermal control	Black silicone high temperature paint : Sperex SP-102	T3IV-9-59-TC4
784	Thermal control	Black silicone high temperature paint : Sperex SP-102	T3IV-9-58-TC4
783	Thermal control	Ceramic coating : black HS 4 on LI-900	T3IV-9-57-TC8
782	Thermal control	Ceramic coating : black HS 4 on LI-900	T3IV-9-56-TC8
781	Thermal control	Ceramic coating : black borated silica coating	T3IV-9-55-TC7
780	Thermal control	Ceramic coating : black borated silica coating	T3IV-9-54-TC7
779	Thermal control	Ceramic coating : white borated silica	T3IV-9-53-TC6
778	Thermal control	Ceramic coating : white borated silica	T3IV-9-52-TC6
777	Thermal control	White silicone high temperature paint: Sperex AP-101	T3IV-9-51-TC3
776	Thermal control	White silicone high temperature paint: Sperex AP-101	T3IV-9-50-TC3
773	Thermal control	Teflon FEP polymer coating: Spraylon 7075	T3IV-9-47-TC5
772	Thermal control	Teflon FEP polymer coating: Spraylon 7075	T3IV-9-46-TC5
771	Thermal control	Polyurethane black paint, Chemglaze Z306	T3IV-9-45-TC13

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770	Thermal control	Polyurethane black paint, Chemglaze Z306	T3IV-9-44-TC13
769	Thermal control	Polyurethane white paint, Chemglaze A276/II	T3IV-9-43-TC12
768	Thermal control	Polyurethane white paint, Chemglaze A276/II	T3IV-9-42-TC12
767	Thermal control	Coated molybdenum foil/ S13N4	T3IV-9-41-TC11
766	Thermal control	Coated molybdenum foil/ S13N4	T3IV-9-40-TC11
765	Thermal control	Coated molybdenum foil/ P238 filler (Al2O3)	T3IV-9-39-TC10
764	Thermal control	Coated molybdenum foil/ P238 filler (Al2O3)	T3IV-9-38-TC10
763	Thermal control	Coated molybdenum foil/1.4μ SiO2	T3IV-9-37-TC9
762	Thermal control	Coated molybdenum foil/1.4μ SiO2	T3IV-9-36-TC9
744	Thermal control	White thermal control paint, S13GLO/6061 Al, IITRI	T3IV-18-18
743	Thermal control	White thermal control paint, S13GLO/6061 Al, IITRI	T3IV-18-17
649	Thermal control	Black thermal control paint, D111/Al, IITRI	T3II-18-73-W
648	Thermal control	White thermal control paint, YB-71/Al, IITRI	T3II-18-72-V1
647	Thermal control	Sputtered black rhodium coating on polished molybdenum substrate	T3II-15-71-U1
646	Thermal control	Sputtered black rhodium coating on polished molybdenum substrate	T3II-15-70-T1
645	Thermal control	Sputtered black rhodium coating on polished molybdenum substrate	T3II-15-69-S1
644	Thermal control	Polished molybdenum mirror	T3II-15-68-R1
643	Thermal control	Iridium foil bonded with DC 6-1104 to aluminum substrate	T3II-15-67-Q1
642	Thermal control	Rhodium foil bonded with DC 6-1104 to aluminum substrate	T3II-15-66-P1
620	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	T3II-5-44-A22
619	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	T3II-5-43-A21
618	Thermal control	White paint: TiO2/RTV 602, ML101, Air Force Materials Laboratory	T3II-5-42-A20
617	Thermal control	White paint: PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	T3II-5-41-A19
616	Thermal control	White paint, alpha-AI2O3/RTV 602, ML101, Air Force Materials Laboratory	T3II-5-40-A18
611	Thermal control	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	T3II-5-35-A17
610	Thermal control	White paint, NS 43G, NASA Goddard Space Flight Center	T3II-5-34-A16
609	Thermal control	White paint, YB-71, IITRI	T3II-5-33-A15
608	Thermal control	White paint, S13GLO, IITRI	T3II-5-32-A14
607	Thermal control	White paint, Z93, IITRI	T3II-5-31-A13
606	Thermal control	In2O3/Kapton/Al, 5 mil, General Electric	T3II-5-30-A12
605	Thermal control	Kapton/Al, 5 mil, Sheldahl	T3II-5-29-A11
604	Thermal control	Kapton/Al, 1 mil, Sheldahl	T3II-5-28-A10
603	Thermal control	In2O3/Tellon FEP/Ag/Inconel, 5 mil, General Electric	T3II-5-27-A9
602	Thermal control	Tellon FEP/Ag/Inconel, 5 mil, Sheldahl	T3II-5-26-A8
601	Thermal control	Tellon FEP/Ag/Inconel, 2 mil, Sheldahl	T3II-5-25-A7
599	Thermal control	Black paint, D111, IITRI	T3II-5-23-A5
598	Thermal control	Indium-Tin oxide/Tellon FEP/Ag/Inconel, 2 mil, Sheldahl	T3II-5-22-A4
597	Thermal control	Porcelain enamel on Al, NASA Marshall Space Flight Center	T3II-5-21-A3
596	Thermal control	Indium-Tin oxide/Tellon FEP/Ag/Inconel, 5 mil, Sheldahl	T3II-5-20-A2
595	Thermal control	Quartz fabric 581 (Asiroquartz)/Tellon FEP/Al, General Electric	T3II-5-19-A1
581	Thermal control	Tellon FEP type A, 5 mil	T3II-5-5-C5
580	Thermal control	Kapton/Al, 5 mil, Sheldahl	T3II-5-4-C4
579	Thermal control	Kapton/Al, 1 mil, Sheldahl	T3II-5-3-C3

DB#	Application	Description	Sample ID
578	Thermal control	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	T3II-5-2-C2
577	Thermal control	Teflon FE ² /Ag/Inconel, 2 mil, Sheldahl	T3II-5-1-C1
542	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	L6VI-5-43-A22
541	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	L6VI-5-42-A21
540	Thermal control	White paint: TiO2/RTV 602, ML101, Air Force Materials Laboratory	L6VI-5-41-A20
539	Thermal control	White paint, PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	L6VI-5-40-A19
538	Thermal control	White paint, alpha-AI2O3/RTV 602, ML101, Air Force Materials Laboratory	L6VI-5-39-A18
537	Thermal control	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	L6VI-5-38-A17
536	Thermal control	White paint, NS 43G, NASA Goddard Space Flight Center	L6VI-5-37-A16
535	Thermal control	White paint, YB-71, IITRI	L6VI-5-36-A15
534	Thermal control	White paint, S13GLO, IITRI	L6VI-5-35-A14
533	Thermal control	White paint, Z93, IITRI	L6VI-5-34-A13
532	Thermal control	In2O3/Kapton/Al, 5 mil, General Electric	L6VI-5-33-A12
531	Thermal control	Kapton/Al, 5 mil, Sheldahl	L6VI-5-32-A11
530	Thermal control	Kapton/Al, 1 mil, Sheldahl	L6VI-5-31-A10
529	Thermal control	In2O3/Teflon FEP/Ag/Inconel, 5 mil, General Electric	L6VI-5-30-A9
528	Thermal control	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	L6VI-5-29-A8
516	Thermal control	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	L6VI-5-17-A7
512	Thermal control	Black paint, D111, IITRI	L6VI-5-13-A5B
511	Thermal control	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	L6VI-5-12-A4
510	Thermal control	Porcelain enamel on Al, NASA Marshall Space Flight Center	L6VI-5-11-A3LC
507	Thermal control	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	L6VI-5-8-A2
506	Thermal control	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al General Electric	L6VI-5-7-A1
372	Thermal control	Stainless steel substrate, black oxide coating	L6III-9-128-TC19-2
371	Thermal control	Al substrate/GE-SHC 1010 coating	L6III-9-127-TC17-2
370	Thermal control	Al substrate/Vestar coating	L6III-9-126-TC16-5
369	Thermal control	Ta substrate/JB-1 black coating	L6III-9-125-TC15-24
368	Thermal control	Ta substrate/LMSC modified Corronics 931 coating	L6III-9-124-TC14-5
244	Thermal control	Black oxide coating on 304 stainless steel substrate	L6III-9-8-TC19-1
240	Thermal control	GE-SHC 1010 coating on Al substrate	L6III-9-4-TC17-1
239	Thermal control	Vestar coating on Al substrate	L6III-9-3-TC16-4
238	Thermal control	JB-1 black coating on Ta substrate	L6III-9-2-TC15-21
237	Thermal control	LMSC modified Corronics 931 coating on Ta substrate	L6III-9-1-TC14-4
231	Thermal control	Rhodium coated glassy carbon substrate	L3IV-15-69-Z1
223	Thermal control	Teflon FEP polymer coating: Spraylon 7075	L3IV-9-61-TC5
222	Thermal control	Teflon FEP polymer coating: Spraylon 7075	L3IV-9-60-TC5
221	Thermal control	Black silicone high temperature paint : Sperex SP-102	L3IV-9-59-TC4
220	Thermal control	Black silicone high temperature paint : Sperex SP-102	L3IV-9-58-TC4
219	Thermal control	Ceramic coating : black HS 4 on LI-900	L3IV-9-57-TC8
218	Thermal control	Ceramic coating : black HS 4 on LI-900	L3IV-9-56-TC8
217	Thermal control	Ceramic coating : black borated silica coating	L3IV-9-55-TC7
216	Thermal control	Ceramic coating : black borated silica coating	L3IV-9-54-TC7
215	Thermal control	Ceramic coating : white borated silica	L3IV-9-53-TC6

DB#	Application	Description	Sample ID
214	Thermal control	Ceramic coating : white borated silica	L3IV-9-52-TC6
213	Thermal control	White silicone high temperature paint: SpereX AP-101	L3IV-9-51-TC3
212	Thermal control	White silicone high temperature paint: SpereX AP-101	L3IV-9-50-TC3
209	Thermal control	Teflon FEP polymer coating: Spraylon 7075	L3IV-9-47-TC1
208	Thermal control	Teflon FEP polymer coating: Spraylon 7075	L3IV-9-46-TC1
207	Thermal control	Polyurethane black paint: Chemglaze Z306	L3IV-9-45-TC13
206	Thermal control	Polyurethane black paint: Chemglaze Z306	L3IV-9-44-TC13
205	Thermal control	Polyurethane white paint: Chemglaze A276/II	L3IV-9-43-TC12
204	Thermal control	Polyurethane white paint: Chemglaze A276/II	L3IV-9-42-TC12
203	Thermal control	Coated molybdenum foil/ Si3N4	L3IV-9-41-TC11
202	Thermal control	Coated molybdenum foil/ Si3N4	L3IV-9-40-TC11
201	Thermal control	Coated molybdenum foil/ P238 filter (Al2O3)	L3IV-9-39-TC10
200	Thermal control	Coated molybdenum foil/ P238 filter (Al2O3)	L3IV-9-38-TC10
199	Thermal control	Coated molybdenum foil/1.4µ SiO2	L3IV-9-37-TC9
198	Thermal control	Coated molybdenum foil/1.4µ SiO2	L3IV-9-36-TC9
180	Thermal control	White thermal control paint, Si3GLO/6061 Al, IITRI	L3IV-18-18-2
179	Thermal control	White thermal control paint, Si3GLO/6061 Al, IITRI	L3IV-18-17-1
87	Thermal control	Sputtered black chrome coating on molybdenum substrate	L3II-15-79-N1
86	Thermal control	Black glass coating on molybdenum substrate	L3II-15-78-M1
85	Thermal control	Sputtered black chrome coating on molybdenum substrate	L3II-15-77-L1
84	Thermal control	Sputtered black rhodium coating on molybdenum substrate	L3II-15-76-k
81	Thermal control	Black thermal control paint, D111/Al, IITRI	L3II-18-73-H1
80	Thermal control	White thermal control paint, YB-71/Al, IITRI	L3II-18-72-G1
79	Thermal control	Black chrome coating on molybdenum substrate	L3II-15-71-F1
78	Thermal control	Sputtered black iridium coating on polished molybdenum substrate	L3II-15-70-E1
77	Thermal control	Sputtered black rhodium coating on polished molybdenum substrate	L3II-15-69-D1
76	Thermal control	Polished molybdenum mirror	L3II-15-68-C1
75	Thermal control	Iridium foil bonded with DC 6-1104 to aluminum substrate	L3II-15-67-B1
74	Thermal control	Rhodium foil bonded with DC 6-1104 to aluminum substrate	L3II-15-66-A1
52	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	L3II-5-44-A22
51	Thermal control	White paint, DC92-007: TiO2/RTV 3140, Rockwell Int.	L3II-5-43-A21
50	Thermal control	White paint: TiO2/RTV 602, ML101, Air Force Materials Laboratory	L3II-5-42-A20
49	Thermal control	White paint, PV100: TiO2/silicone resin, ML101, Air Force Materials Laboratory	L3II-5-41-A19
48	Thermal control	White paint, alpha-Al2O3/RTV 602, ML101, Air Force Materials Laboratory	L3II-5-40-A18
43	Thermal control	White paint, Eu2O3/RTV 602, ML101, Air Force Materials Laboratory	L3II-5-35-A17
42	Thermal control	White paint, NS 43G, NASA Goddard Space Flight Center	L3II-5-34-A16
41	Thermal control	White paint, YB-71, IITRI	L3II-5-33-A15
40	Thermal control	White paint, Si3GLO, IITRI	L3II-5-32-A14
39	Thermal control	White paint, 293, IITRI	L3II-5-31-A13
38	Thermal control	In2O3/Kapton/Al, 5 mil, General Electric	L3II-5-30-A12
37	Thermal control	Kapton/Al, 5 mil, Sheldahl	L3II-5-29-A11
36	Thermal control	Kapton/Al, 1 mil, Sheldahl	L3II-5-28-A10
35	Thermal control	In2O3/Teflon FEP/Ag/Inconel, 5 mil, General Electric	L3II-5-27-A9

DB#	Application	Description	Sample ID
34	Thermal control	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	L3II-5-26-A8
33	Thermal control	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	L3II-5-25-A7
31	Thermal control	Black paint, D111, ITRI	L3II-5-23-A5
30	Thermal control	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	L3II-5-22-A4
29	Thermal control	Porcelain enamel on Al, NASA Marshall Space Flight Center	L3II-5-21-A3
28	Thermal control	Indium-Tin oxide/Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	L3II-5-20-A2
27	Thermal control	Quartz fabric 581 (Asitroquartz)/Teflon FEP/Al General Electric	L3II-5-19-A1
13	Thermal control	Teflon FEP type A, 5 mil	L3II-5-5-C5
12	Thermal control	Kapton/Al, 5 mil, Sheldahl	L3II-5-4-C4
11	Thermal control	Kapton/Al, 1 mil, Sheldahl	L3II-5-3-C3
10	Thermal control	Teflon FEP/Ag/Inconel, 5 mil, Sheldahl	L3II-5-2-C2
9	Thermal control	Teflon FEP/Ag/Inconel, 2 mil, Sheldahl	L3II-5-1-C1
641	Thermal control	Black chrome coating on molybdenum substrate	T3II-15-65-O1
2004	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel/adhesive sheet	L3I-20-1
953	Thermal control, adhesive bond	Tedlar (400BS30W11) bonded to Al with Isotack Y9469	T6III-9-127-TC18-4
821	Thermal control, adhesive bond	Tedlar (400BS30W11) bonded to Al with Isotack Y9469	T6III-9-5-TC18-3
775	Thermal control, adhesive bond	Silicone paint: black vacuum distilled RTV 602	T3IV-9-49-TC2
774	Thermal control, adhesive bond	Silicone paint: black vacuum distilled RTV 602	T3IV-9-48-TC2
588	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/NATO IIC/Kapton, 8.5 mil	T3II-5-12-C12
587	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/Y966/Kapton (5 mil)	T3II-5-11-C11
586	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Al/Kapton (5 mil)	T3II-5-10-C10
585	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	T3II-5-9-C9
584	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	T3II-5-8-C8
583	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	T3II-5-7-C7
582	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/Eccobond 57C/Kapton (5 mil)	T3II-5-6-C6
373	Thermal control, adhesive bond	Tedlar (400BS30W11) bonded to Al with Isotack Y9469	L6III-9-129-TC18-2
243	Thermal control, adhesive bond	Tedlar (400BS30W11) bonded to Al with Isotack Y9469	L6III-9-7-TC18-1
211	Thermal control, adhesive bond	Silicone paint: black vacuum distilled RTV 602	L3IV-9-49-TC2
210	Thermal control, adhesive bond	Silicone paint: black vacuum distilled RTV 602	L3IV-9-48-TC2
20	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/NATO IIC/Kapton, 8.5 mil	L3II-5-12-C12
19	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/Y966/Kapton (5 mil)	L3II-5-11-C11
18	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Al/Kapton (5 mil)	L3II-5-10-C10
17	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	L3II-5-9-C9
16	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	L3II-5-8-C8
15	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/RTV 560+12% graphite/Kapton (5 mil)	L3II-5-7-C7
14	Thermal control, adhesive bond	Teflon FEP/Ag/Inconel (5 mil)/Eccobond 57C/Kapton (5 mil)	L3II-5-6-C6
2003	Thermal control, hardware	Chemglaze A276 painted Al sunshield covering Experiment Power and Data System	D8-Sunshield
2002	Thermal control, hardware	S13GLO painted Al box covering signal conditioning unit	D8-SCU Cover
2001	Thermal control, hardware	Chemglaze A276 painted Al sunshield covering Experiment Power and Data System	D4-Sunshield
2000	Thermal control, hardware	S13GLO painted Al box covering signal conditioning unit	D4-SCU Cover
1106	Thermal control, hardware	Ag/Teflon FEP covered cassette holding 11 sun pumped laser coatings	T6VI-6-21-II
1105	Thermal control, hardware	Ag/Teflon FEP-covered aperture plate on cassette containing 25 optical samples	T6VI-13-20-A
628	Thermal control, hardware	Ag/Teflon FEP covered cassette holding 26 laser communication coatings and optical materials	T3II-6-52-IA&B

DB#	Application	Description	Sample ID
527	Thermal control, hardware	Ag/Tellon FEP covered cassette containing 11 sun pumped laser coatings	T3II-6-51-III
513	Thermal control, hardware	Ag/Tellon FEP covered cassette holding four laser communication components	L6VI-6-14-IV
59	Thermal control, hardware	Ag/Tellon FEP covered cassette holding 9 laser communication detectors	L3II-6-51-V
1105 11	Thermal control, optics	Solar absorber: Black chrome on nickel foil	T6VI-13-20-11A
1105 1	Thermal control, optics	Flexible mirror: Dielectric Stack, Al2O3/Ag/Kapton	T6VI-13-20-10A
1104	Thermal control, optics	Au mirror/Al	T6VI-5-19-B3
1103	Thermal control, optics	Optical Solar Reflector, OCLI SI-100	T6VI-5-18-B1
1102	Thermal control, optics	Optical Solar Reflector, OCLI SI-100 with conductive coating	T6VI-5-17-B2
1101	Thermal control, optics	Al mirror/glass	T6VI-5-16-B4
1089	Thermal control, optics	Ag mirror/Al	T6VI-5-4-B5
615	Thermal control, optics	Ag mirror/Al	T3II-5-39-B6
614	Thermal control, optics	Ag mirror/Al	T3II-5-38-B5
613	Thermal control, optics	Al mirror/glass	T3II-5-37-B4
612	Thermal control, optics	Au mirror/Al	T3II-5-36-B3
594	Thermal control, optics	Optical Solar Reflector, OCLI SI-100 with conductive coating	T3II-5-18-B2
593	Thermal control, optics	Optical Solar Reflector, OCLI SI-100	T3II-5-17-B1
527	Thermal control, optics	Optical Solar Reflector, OCLI SI-100 with conductive coating	L6VI-5-28-B2
525	Thermal control, optics	Au mirror/Al	L6VI-5-26-B3
524	Thermal control, optics	Ag mirror/Al	L6VI-5-25-B5
523	Thermal control, optics	Al mirror/glass	L6VI-5-24-B4
522	Thermal control, optics	Optical Solar Reflector, OCLI SI-100	L6VI-5-23-B1
47	Thermal control, optics	Ag mirror/Al	L3II-5-39-B6
46	Thermal control, optics	Ag mirror/Al	L3II-5-38-B5
45	Thermal control, optics	Al mirror/glass	L3II-5-37-B4
44	Thermal control, optics	Au mirror/Al	L3II-5-36-B3
26	Thermal control, optics	Optical Solar Reflector, OCLI SI-100 with conductive coating	L3II-5-18-B2
25	Thermal control, optics	Optical Solar Reflector, OCLI SI-100	L3II-5-17-B1

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