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THERMOPHYSICAL AND ELECTRONIC PROPERTIES OF FOREIGN STAINLESS S--ETC(U)
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THERMOPHYSICAL AND ELECTRONIC PROPERTIES OF
FOREIGN STAINLESS STEELS

A Comprehensive Survey of the World Literature

P.D. DESAI

CINDAS REPORT 61

November 1981

Prepared by
THERMOPHYSICAL AND ELECTRONIC PROPERTIES
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Prepared by

**THERMOPHYSICAL AND ELECTRONIC PROPERTIES
INFORMATION ANALYSIS CENTER**

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Attn: Wade H. Shafer
2595 Yeager Road
West Lafayette, IN 47906"
Price: \$40.00

PREFACE

This State-of-the-Art Report was prepared by the Thermophysical and Electronic Properties Information Analysis Center (TEPIAC), a Department of Defense Information Analysis Center. This Center is operated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS), Purdue University, West Lafayette, Indiana 47906, under Defense Logistics Agency (DLA) Contract DLA900-79-C-1007. The Government Administrative Manager for TEPIAC is Mr. J.F. Pendergast, Program Manager for Information Analysis Centers, Defense Technical Information Center (DTIC), Cameron Station, Alexandria, Virginia 22314. TEPIAC is under the technical direction of the Army Materials and Mechanics Research Center (AMMRC), Watertown, Massachusetts 02172, with Mr. David W. Seitz as the Contracting Officer's Technical Representative. The Contract was issued by the Defense Electronics Supply Center, Dayton, Ohio, with Ms. Sara M. Williams as the Contracting Officer.

This report presents the most complete list of information and data sources that are known to exist for the thermophysical and electronic properties of foreign stainless steels. These steels are arranged according to the compositions, which make it simpler to compare these with the U.S. steels and to find their equivalent. The data and information on the properties of foreign stainless steels are important not only in its own right, but are also for use in helping to resolve the controversy between various data available on the U.S. equivalent steels or even to fill the data gaps that may exist in the properties for U.S. steels. The bibliography in this report contains approximately 431 citations.

It is possible for the user to make retrospective searches quickly on over 460 different foreign steels which are listed in the Materials Directory. In turn, the user refers to the Technical Coding to tailor each search for retrieval on any given set of parameters, such as property, physical state, subject, and temperature range. Finally the search will yield a selection of citations from the Bibliography. Simple and easy to use instructions are included.

This work is believed to be very useful to DoD and other engineers and scientists working on various research, development, and engineering programs who have a need for information on foreign stainless steels.

The author wishes to acknowledge the individual and collective contributions of our Scientific Documentation Division which have made this publication possible. Additions to the file continue on a routine basis. Updated searches and other services are available on request.

West Lafayette, Indiana
October, 1981

C. Y. Ho
Interim Director of CINDAS
Purdue University

ABSTRACT

This report presents comprehensive bibliographic information on the thermophysical and electronic (including electrical, magnetic, and optical) properties of 462 different foreign stainless steels. The steels included in the report are from Czechoslovakia, France, Germany, India, Italy, Japan, Poland, Romania, Sweden, The Netherlands, United Kingdom, USSR, and Yugoslavia. The bibliographic citations are indexed in depth. Concise instructions are also given so that the user can quickly make retrospective literature searches for specified foreign stainless steels and properties.

The thermophysical properties covered in this report are: thermal conductivity, thermal diffusivity, specific heat, thermal linear expansion, thermal volumetric expansion, viscosity, emittance, reflectance, and absorptance. The electronic properties covered are absorption coefficient, dielectric constant, energy gap, electrical resistivity, electron emission properties, magnetic hysteresis, magnetic susceptibility, magnetoelectric properties, magnetomechanical properties, photoelectric properties, refractive index, and work function.

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THE ORGANIZATION OF THE VOLUME

One of the features of the TEPIAC Computerized Information Storage and Retrieval System is its ability to create research literature source books for selected groups of materials. This report presents such a source book for foreign stainless steels. Stainless steels included in this report are those iron alloys containing less than ≥ 12 wt.% chromium and less than 2 wt.% carbon. Those iron alloys containing $\geq 12\%$ chromium with $\geq 2\%$ carbon are included in its companion volume on nonstainless alloy steels carbon steels and cast irons.

The TEPIAC retrieval system is based on assigning a seven digit material number to each material, a one or two letter property code for each property and an accession number to each relevant research document. These three entities of material, property, and document are connected through a codification scheme which allows easy retrieval of information through the presentation described in this report.

This report is composed of three main parts which are: The Materials Directory, Technical Coding, and Bibliography.

In order to find the bibliographic citation for a material for given properties, the simple steps to be followed are as follows:

Find out the material number from the Materials Directory and the property code from the Search Parameters list. By scanning down the Technical Coding listing, one can find accession numbers assigned to the documents containing the desired codes. Finally, the search can be completed by going to the Bibliography to obtain the complete citation for each of the relevant accession number.

MATERIALS DIRECTORY

This directory lists all the stainless steels from thirteen foreign countries. The number of steels from different countries for which thermo-physical and/or electronic properties are available are as follows:

<u>Country</u>	<u>Number of Materials</u>
Czechoslovakia	2
France	9
Germany	109
India	12
Italy	8
Japan	60

<u>Country</u>	<u>Number of Materials</u>
The Netherlands (Dutch)	1
Poland	9
Romania	1
Sweden	5
United Kingdom (British)	51
U.S.S.R.	190
Yugoslavia	5

The materials are listed under each country and within country the materials are arranged alphabetically according to their major components, e.g., Aluminum Steels, Chromium Steels, Nickel Steels, etc. Under these main groups, the materials are further arranged according to their compositions. Most of the materials have internationally accepted official or industrial designations such as GOST (Russian), BS/En (British), JIS, Remanit (German), etc. These designations follow the compositions. Each steel is assigned a unique seven-digit material number in the TEPIAC retrieval system. In addition to the steels with special designations there are a number of experimental steels also included in the materials directory. A material number is assigned to several of these experimental steels with identical composition irrespective of their national origin.

The following books/reports were found useful by CINDAS in the classification and identification of foreign steels:

1. Handbook of Soviet Alloy Composition, Metal and Ceramics Information Center, Columbus Ohio, MCIC-HB-05, 1980.
2. Properties of En Steels, Woolman, J. and Mottram, R.A. (British Iron and Steel Research Association) Pergamon Press, Vol. 1, 1964, Vol. 2, 1966, and Vol. 3, 1969.
3. Stahl-Eisen-Liste, Schmitz, H. (Union of German Metallurgists), Verlag Stahleisen M.B.H., Duesseldorf, West Germany, 1972.
4. Handbook of Comparative World Steel Standards, The International Technical Information Institute, Tokyo, Japan, 1974.
5. International Metallic Materials Cross Reference, Potts, D.L., Materials Information Services, General Electric Company, Schenectady, New York, 1979.

TECHNICAL CODING

Bibliographic searches can be made using the following search codes in conjunction with the seven-digit material numbers.

	<u>Code</u>
A. <u>Property</u>	
1. Thermophysical Properties	
Absorptance	I
Emittance	G
Radiative Properties	R
Reflectance	H
Specific Heat	E
Thermal Conductivity	A
Thermal Diffusivity	D
Thermal Linear Expansion	N
Thermal Volumetric Expansion	O
Viscosity	F
2. Electronic Properties	
Absorption Coefficient	AS
Dielectric Constant	DC
Electron Emission Properties	EP
Electrical Resistivity	ER
Magnetic Hysteresis	MH
Magnetic Susceptibility/Curie Temperature	MS
Magnetomechanical Properties	MP
Photoelectronic Properties	PP
Refractive Index	RI
Work Function	WF
B. <u>Physical States</u>	
Doped	D
Fibrous (Whisker)	F
Films (thick or thin)	T
Liquid	L
Solid	S
C. <u>Subject Coverage</u>	
Data	D
Experimental	E
General (Data + Experimental + Theory)	G
Theory	T
D. <u>Temperature Ranges</u>	
High (Above 1273 K)	H
Low (0 to 75 K)	L
Normal (above 75 to 1273 K)	N

CodeE. Languages

Czech	C
English	E
Dutch	D
French	F
German	G
Italian	I
Japanese	J
Polish	P
Russian	R
Other	O

In listing of entries according to the search parameters in the section for the technical coding, one will find first the property codes, followed by a seven-digit material number, codes for physical states (D, F, T, L, or S), subject coverage (D, E, G, or T), temperature range (H, L, or N), languages (C, D, E, F, G, I, J, P, R, or O), document accession number (with T or E prefixes), followed by the year of publication.

BIBLIOGRAPHY

There are 365 references for thermophysical properties (with the prefix T) and 65 references for the electronic properties (with the prefix E) listed numerically. Since this report is for foreign steels, the majority of the references cited here are in foreign languages. However, every attempt is made to give the source of the English translation whenever it is available.

Because of the wide variety of literature sources cited different formats for bibliographic citations are used in the Bibliography. In this connection a number of problems of general character are encountered. CINDAS procedures in coping with these problems are described below:

1. Titles reported in the Bibliography are taken either from an abstract or from the original work. In the case of translated titles, discrepancies may exist between various sources. In general, CINDAS makes no special effort to check the accuracy of titles.
2. The names of scientific and technical journals are normally abbreviated according to the guidelines of the Chemical Abstracts Service Source Index (CASSI). In cases where a journal name is not applicable, the name of the publisher, symposium, or disseminating agency is entered in place of the journal name, depending upon the reference work.

3. Key punching format limitations in the earlier citations necessitated the adoption of substitute representations for some of the symbols and alphabetic and numeric arrangements. The following are examples of substitute representations used in the Bibliography:

- a. Brackets [] are shown as // //.
- b. Parentheses () are shown as / /.
- c. Apostrophes are shown as #; e.g., Shul'ga is written as Shul#ga.

PART A
MATERIALS DIRECTORY

MATERIALS DIRECTORY

(ORGANIZED BY COUNTRY OF ORIGIN AND COMPOSITION OF STEELS)

I. BRITISH STAINLESS STEELS

	Material Number
12 Cr + 1 Mn / T12	322-0018
12 Cr + 2 Mn + 2 Ni / Jethete M 153	322-0542
12 Cr + 12 Ni	322-1136
12 Cr + 12 Ni	322-1187
12 Cr + 12 Ni / En 58D	322-1157
12 Cr + 16 Ni	355-0880
12 Cr + 16 Ni	355-0929
12 Cr + 20 Ni	355-0881
12 Cr + 20 Ni	355-0930
12 Cr + 0.8 V / H 46	322-0547
13 Cr / En 56B	322-1217
13 Cr + 13 Ni + 10 Co / G 18B	322-0248
13 Cr + 25 Ni + 3 W / G 17	355-0192
14 Cr + 1 Mn + 1 Ni / En 56	322-0942
14 Cr + 0.4 Ni / F H	322-0093
14 Cr + 18 Ni + 4 Mo / Rex 78	355-0191
15 Cr + 27 Ni + 3 W / Era A T V	355-0117
17 Cr / FI 17	322-0709
17 Cr + 5 Ni + 2 Mo / F V 520	322-0984
17 Cr + 9 Ni	322-1197
17 Cr + 9 Ni	322-1199
17 Cr + 11 Ni	322-1195
17 Cr + 20 Ni	355-0882
17 Cr + 20 Ni	355-0931
17 Cr + 37 Ni + 2 Si / Macloy G	355-0204
18 Cr + 8 Ni / En 58A	322-1156
18 Cr + 9 Ni / Staybrite	322-0112
18 Cr + 10 Ni / Staybrite F D P	322-1344
18 Cr + 10 Ni	322-1193
18 Cr + 10 Ni + 2 Mn / Staybrite E M S	322-1345
18 Cr + 12 Ni	322-1137
18 Cr + 12 Ni	322-1188
18 Cr + 14 Ni	322-1196
18 Cr + 16 Ni	322-1138
18 Cr + 16 Ni	322-1189
18 Cr + 37 Ni / Nimonic P E 7	355-0418
19 Cr + 8 Ni / En 58	322-0943
19 Cr + 11 Ni	322-1198
19 Cr + 14 Ni / R 20	322-0213
20 Cr + 2 Ni / H 29	322-0149
20 Cr + 10 Ni / En 58B	322-0715
20 Cr + 12 Ni / En 58C	322-0714
23 Cr + 11 Ni	322-1194

I. BRITISH STAINLESS STEELS (continued)

		Material Number
24 Cr + 5 Ni + 3 Mo / H 48		322-0162
24 Cr + 12 Ni		322-1139
24 Cr + 12 Ni		322-1190
24 Cr + 20 Ni		322-1141
24 Cr + 20 Ni		322-1192
25 Cr + 16 Ni		322-1140
25 Cr + 16 Ni		322-1191

II. CZECHOSLOVAKIAN STAINLESS STEELS

16 Cr + 10 Ni / 17242		322-1302
19 Cr + 10 Ni / 17246		322-1303

III. DUTCH STAINLESS STEELS

26 Cr		322-0675
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IV. FRENCH STAINLESS STEELS

15 Cr + 35 Ni / Alloy 35 Ni - 15 Cr		355-0227
17 Cr / Z 8 C 17		322-1417
18 Cr + 8 Ni		322-1147
18 Cr + 9 Ni / 18 - 8		322-0001
18 Cr + 10 Ni / NS 22S		322-0724
19 Cr + 22 Ni + 3 Mo / Durimet T		355-0228
20 Cr + 20 Co + 20 Ni / Multimet		322-0094
25 Cr / Dilver O		322-0679
28 Cr + 10 Ni		322-0344

V. GERMAN STAINLESS STEELS

12 Cr + 0.7 Mn / X 18 Cr Mo Ni V Nb 12 1		322-1591
12 Cr + 1 Mo / X 20 Cr Mo V 12 1		322-0796
12 Cr + 0.2 Ni		322-0077
12 Cr + 12 Ni + 2 W		322-0535
13 Cr		322-0362
13 Cr + 1 Al		322-0771

V. GERMAN STAINLESS STEELS (continued)

	Material Number
13 Cr + 0.6 C / M C C	322-0495
13 Cr + 2 Co	322-0088
13 Cr + 0.5 Mn	322-0086
13 Cr + 1 Mn	322-0807
13 Cr + 1 Mn / X 40 Cr 13	322-0931
13 Cr + 1 Mo / Remanit	322-0265
13 Cr + 12 Ni + 3 W	322-0080
13 Cr + 12 Ni + 10 W	322-0087
13 Cr + 13 Ni + 2 Si	322-0761
13 Cr + 13 Ni + 2 Si	355-0511
14 Cr	322-0096
14 Cr + 0.7 Ni	322-0091
15 Cr	322-0401
15 Cr + 7 Ni + 2 Mo	322-0765
16 Cr + 13 Ni + 11 Co	322-0781
16 Cr + 13 Ni / X 8 Cr Ni Mo V Nb 16 13	322-0799
16 Cr + 13 Ni / X 8 Cr Ni Nb 16 13	322-0797
16 Cr + 13 Ni	322-0778
16 Cr + 13 Ni + 2 Mn / X 8 Cr Ni 16 13	322-1399
16 Cr + 16 Ni + 2 Mo / X 8 Cr Ni Mo Nb 16 16	322-0726
16 Cr + 16 Ni + 3 W / X 6 Cr Ni W Nb 16 16	322-0993
16 Cr + 18 Ni / X 2 Ni Cr 18 16 (Remanit 4321)	355-1306
16 Cr + 24 Ni + 2 Ti	355-0516
16 Cr + 36 Ni	355-0513
16 Cr + 36 Ni + 2 Si / X 12 Ni Cr Si 36 16 (Thermax 4864)	355-0902
17 Cr	322-0402
17 Cr + 0.7 Mn	322-0763
17 Cr + 7 Ni + 1 Al	322-0766
17 Cr + 8 Ni / X 12 Cr Ni 17 7 (Remanit 4310)	322-1364
17 Cr + 9 Mn / X 3 Cr Mn Ni 18 9 (Remanit 4373)	322-1365
17 Cr + 11 Ni + 2 Mo	322-0782
17 Cr + 12 Ni + 2 Mn / V2 A	322-0786
17 Cr + 13 Ni + 1 Mn	322-0784
17 Cr + 16 Ni + 2 Mo / A T S 13	322-0779
17 Cr + 17 Ni + 2 Mo / X 8 Cr Ni Mo B Nb 16 16	322-1588
17 Cr + 21 Ni + 2 Mo / X 5 Cr Ni Mo Cu Nb 20 18 (Remanit 4505)	355-1307
17 Cr + 0.5 Si	322-0762
18 Cr + 1 Al	322-0772
18 Cr + 6 Ni + 4 Mn	322-0768
18 Cr + 8 Ni / X 10 Cr Ni 18 8	322-0120
18 Cr + 8 Ni / A T S	322-0888
18 Cr + 8 Ni + 1 Mn	322-0767
18 Cr + 8 Ni + 2 Mn / 18 - 8	322-0001
18 Cr + 8 Ni + 6 Mn / X 16 Cr Ni Mn 18 8 6	322-1152
18 Cr + 9 Ni + 0.5 Mn	322-0110
18 Cr + 9 Ni / X 12 Cr Ni S 18 8 (Remanit 4305)	322-1362
18 Cr + 9 Ni + 2 Mn / X 5 Cr Ni 18 9 (Remanit 4301)	322-0899

V. GERMAN STAINLESS STEELS (continued)

	Material Number
18 Cr + 10 Ni / Remanit 1895	322-0727
18 Cr + 10 Ni + 2 Mn / X 10 Cr Ni Nb 18 9 (Remanit 4550)	322-1370
18 Cr + 10 Ni + 2 Mn / X 10 Cr Ni Ti 18 9 (Remanit 4541)	322-0371
18 Cr + 10 Ni + 2 Mn / X 12 CR Ni Ti 18 9	322-1586
18 Cr + 11 Ni	322-0775
18 Cr + 11 Ni + 2 Mn / X 2 Cr Ni N 18 11 (Amagnit 3945)	322-1358
18 Cr + 11 Ni + 2 Mn / X 6 Cr Ni 18 11	322-1398
18 Cr + 11 Ni + 2 Mo	322-0769
18 Cr + 12 Ni + 2 Mn / X 5 Ni Mo 18 10 (Remanit 4401)	322-1366
18 Cr + 12 Ni + 2 Mo / X 10 Cr Ni Mo Ti 18 10 (Remanit 4571)	322-0898
18 Cr + 13 Ni + 2 Mn / X 10 Cr Ni Mo Nb 18 10 (Remanit 4580)	322-1372
18 Cr + 13 Ni + 2 Mn / X 10 Cr Ni Mo Ti 18 12 (Remanit 4573)	322-1371
18 Cr + 13 Ni + 2 Mn / X 2 Cr Ni Mo 18 10 (Remanit 4404)	322-1367
18 Cr + 13 Ni + 3 Mo / X 5 Cr Ni Mo 18 12 (Remanit 4436)	322-1368
18 Cr + 14 Ni + 3 Mo / X 2 Cr Ni Mo 18 12	322-1622
18 Cr + 14 Ni + 3 Mo / X 4 Cr Ni Mo N 18 14 (Amagnit 3952)	322-1359
18 Cr + 16 Ni + 4 Mo / X 2 Cr Ni Mo 18 6 (Remanit 4438)	322-1369
19 Cr + 8 Ni	322-0536
19 Cr + 11 Ni + 2 Mn / X 2 Cr Ni 18 9 (Remanit 4306)	322-1363
19 Cr + 12 Ni	322-0783
19 Cr + 21 Ni + 20 Co	355-0517
19 Cr + 21 Ni + 20 Co + 4 W	355-0773
19 Cr + 21 Ni + 21 Co + 4 Mo	355-0772
20 Cr + 20 Co + 20 Ni / X 40 Co Cr Ni 20 20 (ATS 103)	320-0089
20 Cr + 26 Co	320-0022
20 Cr + 9 Ni	322-0147
20 Cr + 12 Ni + 2 Si	322-0776
20 Cr + 12 Ni + 2 Si / X 15 Cr Ni Si 20 12 (Thermax 4828)	322-1155
20 Cr + 13 Ni + 2 Si	322-0154
20 Cr + 16 Ni + 5 Mn / X 3 Cr Ni Mo Nb W 19 16 (Amagnit 3694)	322-1360
20 Cr + 32 Ni / Vacromium F	355-0219
21 Cr	322-0403
21 Cr + 11 Ni / C F 20	322-0311
21 Cr + 21 Ni + 20 Co / X 12 Cr Co Ni 21 20	322-1587
21 Cr + 35 Ni	355-0343
23 Cr + 10 Ni / Krupp V2 A	322-0158
23 Cr + 20 Ni	322-0156
24 Cr	322-0404
24 Cr + 17 Ni + 5 Mn / X 3 Cr Ni Mo Nb N 23 17 (Amagnit 3974)	322-1361
24 Cr + 20 Ni	322-0537
25 Cr + 13 Al	322-0773
25 Cr + 0.8 C	322-0534
25 Cr + 4.0 Ni	322-0166
25 Cr + 20 Ni	322-0476
25 Cr + 20 Ni + 2 Si	322-1153
25 Cr + 20 Ni + 2 Si	322-0777
25 Cr + 26 Ni + 2 Mo	355-0512

V. GERMAN STAINLESS STEELS (continued)

	Material Number
26 Cr + 4 Ni	322-0774
26 Cr + 13 Ni / H H	322-0421
26 Cr + 20 Ni / H K	322-0423
27 Cr + 5 Ni + 2 Mo / X 8 Cr Ni Mo 27 5	322-0901
27 Cr + 8 Ni + 3 Mo / X 8 Cr Ni Mo Cu 27 8	322-0902
27 Cr + 18 Ni	322-0173
28 Cr + 2 Ni	322-0180
28 Cr + 10 Ni	322-0419
29 Cr + 0.6 Mn	322-0764
29 Cr + 10 Ni / X 10 Cr Ni 30 9	322-1300
Fe + Cr	322-0002

VI. INDIAN STAINLESS STEELS

13 Cr + 6 Mn + N	322-1634
17 Cr + 12 Mn + N	322-1635
21 Cr + 13 Mn + N	322-1638
21 Cr + 15 Mn + N	322-1637
21 Cr + 20 Mn + N	322-1636
22 Cr + 18 Mn + N	322-1639
23 Cr + 15 Mn + N	322-1640
24 Cr + 13 Mn + N	322-1641
26 Cr + 20 Mn + N	322-1642
30 Cr + 5 Mn + N	322-1643
30 Cr + 11 Mn + N	322-1644
31 Cr + 6 Mn + N	322-1645

VII. ITALIAN STAINLESS STEELS

12 Cr	322-0078
14 Cr	322-0096
14 Cr + 2 W	322-1434
18 Cr + 8 Ni / X 10 C N 1808	322-0916
18 Cr + 8 Ni / 18-8	322-0001
20 Cr	322-0150
23 Cr + 11 Ni	322-0157
24 Cr + 22 Ni	322-0163

VIII. JAPANESE STAINLESS STEELS

	Material Number
12 Cr	322-0078
12 Cr + 10 Co + 7 W / D S F	322-0895
12 Cr + 7 W + 5 Co / D S E	322-0894
13 Cr + 13 Co	320-0099
13 Cr + 13 Co	322-0749
13 Cr + 16 Co	320-0094
13 Cr + 16 Co + 2 Mo	320-0095
13 Cr + 16 Co + 5 Mo	320-0097
13 Cr + 0.5 Ni	322-0306
13 Cr + 8 Ni + 2 Mo	322-0753
13 Cr + 8 Ni + 3 Mo	322-0752
13 Cr + 8 Ni + 5 Mo	322-0751
14 Cr	322-1395
14 Cr + 16 Co + 3 Mo	320-0096
14 Cr + 22 Co	320-0136
14 Cr + 0.3 Mn	322-0366
14 Cr + 27 Ni + 2 Si	355-0251
14 Cr + 0.8 Ni	322-1593
(14-26) Cr	322-1601
15 Cr	322-0401
16 Cr + 16 Co	322-0750
16 Cr + 16 Co	320-0101
16 Cr + 0.8 Si	322-1594
17 Cr + 5 Ni / 17-5	322-0747
17 Cr + 7 Ni / 17-7	322-0746
17 Cr + 9 Ni	322-0305
17 Cr + 13 Ni + 1 Mn	322-1351
17 Cr + 13 Ni + 3 Mo	322-1352
17 Cr + 0.6 Si	322-1377
18 Cr + 1 Mo	322-1599
18 Cr + 2 Mo	322-1600
18 Cr + 8 Ni	322-1147
18 Cr + 8 Ni + 2 Mn / 18-8	322-0001
18 Cr + 8 Ni + 0.5 Si	322-0367
18 Cr + 10 Ni / 18-10	322-0745
18 Cr + 0.5 Si	322-1595
19 Cr + 10 Ni + 2 Mn / SUS 27	322-1378
20 Cr + 0.8 Si	322-1596
20 Cr + 5 Ni / 20-5	322-0748
20 Cr + 26 Ni + 2 Mn	355-1293
20 Cr + 26 Ni + 5 Mo	355-1294
20 Cr + 30 Ni	355-1335
21 Cr + 20 Co + 20 Ni / LCN - 155	322-0990
21 Cr + 9 Ni	322-0234

VIII. JAPANESE STAINLESS STEELS (continued)

	Material Number
23 Cr + 0.8 Si	322-1597
25 Cr + 20 Ni	322-0169
25 Cr + 35 Ni	355-1336
26 Cr	322-1598
28 Cr + 15 Co	322-1204
28 Cr + 18 Co	322-1203
28 Cr + 20 Co	322-1205
28 Cr + 23 Co + 1 Si	322-1612
(28-30) Cr + (15-20) Co	322-1208
30 Cr + 15 Co	322-1206
30 Cr + 20 Co	322-1207
40 Cr + 0.4 Mn / C E 40	322-0921
45 Cr + 0.4 Mn / C E 45	322-0920
45 Cr + 1 Mo / C F M 45-1	322-0924
45 Cr + 2 Mo / C F M 45-2	322-0925
45 Cr + 0.6 Si / C F M 45-0.5	322-0923
45 Cr + 0.7 Si / C F M 45-0.2	322-0922

IX. POLISH STAINLESS STEELS

15 Cr + 0.7 Si / L H 14	322-0918
16 Cr + 38 Ni + 3 W / A K R N Poldi	355-0313
17 Cr + 5 Al / Baildona1 10	322-1573
17 Cr + 8 Ni / L H 17 N 8	322-0917
18 Cr + 9 Ni / 1 H 18 N9	322-0662
18 Cr + 10 Ni / 1 H 18 N9 T	322-0919
20 Cr + 35 Ni	355-1320
26 Cr + 0.7 Mn / L H 26	322-0946
28 Cr + 1.0 C / Z 1 Cr 28	322-0950

X. ROMANIAN STAINLESS STEELS

18 Cr + 0.8 Si + 0.8 Ti / 7 T C 170	322-0850
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XI. SWEDISH STAINLESS STEELS

	<u>Material</u> <u>Number</u>
20 Cr + 34 Ni / Sanicro 30	355-1562

XII. USSR STAINLESS STEELS

12 Cr	322-0078
12 Cr + 20 Mn	345-0345
12 Cr + 7 Ni + 0.7 Al / 00 Kh 12 N7 Yu M	322-1039
12 Cr + 8 Ni + 0.9 Al / 00 Kh 12 N8 Yu	322-1040
12 Cr + 9 Ni + 0.9 Mo / 00 Kh 12 N9 M	322-1041
12 Cr + 10 Ni / Kh 12 N 10	322-0868
12 Cr + 16 Ni + 4 Si / EI 850	355-0617
12 Cr + 23 Ni + 3 Ti / Kh 12 N22 T3 M R	355-1263
12 Cr + 0.9 W / 15 Kh 12 V M F	322-0521
13 Cr / Kh 13	322-0889
13 Cr / 3 Kh 13	322-0669
13 Cr / 2 Kh	322-0512
13 Cr / 4 Kh 13	322-0561
13 Cr + 0.4 C	322-0933
13 Cr + 5 Co / Kh 13 K 5	322-1145
13 Cr + 0.6 Mn / Kh 13	322-1623
13 Cr + 0.6 Mn / 1 Kh 13	322-1624
13 Cr + 0.6 Mn / E Zh 1	322-0099
13 Cr + 9 Mn + 8 Ni / 4 Kh 12 N8 G8 M F B	322-0988
13 Cr + 8 Ni + 0.9 Al / Kh 13 N8 Yu	322-0867
13 Cr + 13 Ni + 10 Co / Kh N10 K	322-0644
13 Cr + 36 Ni + 3 Ti / N 36 Kh T (EI 702)	355-0680
13 Cr + 2 Si / Kh 12 S Yu	322-0935
14 Cr	322-0096
(14-50) Cr	322-1228
14 Cr / 12 Kh 14	322-1012
14 Cr + 2 Al / 0 Kh 13 S 2 Yu2 B T	322-0939
14 Cr + 14 Mn + 3 Ni / Kh 14 G 14 N3 T	322-1014
14 Cr + 3 Ni + 2 W / EI 736	322-0908
14 Cr + 13 Ni + 3 Si / W F 100	322-0247
14 Cr + 14 Ni + 2 W / 1 Kh 14 N14 V2 M (EI 257)	322-0236
14 Cr + 14 Ni + 2 W / EI 69	322-0014
14 Cr + 16 Ni	355-0997
14 Cr + 16 Ni + 1.0 Nb / EI 854	355-0615
14 Cr + 19 Ni + 3 Mo + 2 W	355-0659
14 Cr + 19 Ni + 2 W / 1 Kh 14 N19 V3 B (EI 851)	355-1218
14 Cr + 19 Ni + 2 W / 1 Kh 14 N18 V2 B R1	355-0658
14 Cr + 21 Ni	355-0996
14 Cr + 26 Ni	355-0995

XII. USSR STAINLESS STEELS (continued)

	Material Number
15 Cr + 5 Al	322-0892
15 Cr + 5 Al + 0.5 Ca	322-0893
15 Cr + 0.3 C / 25 Kh 15	322-1592
15 Cr + 21 Mn	345-0346
15 Cr + 5 Ni + 2 Cu / Kh 15 N5 D2 T	322-1013
15 Cr + 8 Ni + 1.0 Al / Kh 15 N9 Yu	322-1059
15 Cr + 8 Ni + 2 Mo / Kh 15 N7 Yu M2	322-1058
15 Cr + 15 Ni + 3 Co / Kh 15 N15 K3 V M	322-0568
15 Cr + 24 Ni + 2 Ti / Kh 15 N24 T2	355-0570
15 Cr + 24 Ni + 5 W / EP 164	355-0911
15 Cr + 25 Ni	355-0384
15 Cr + 25 Ni	355-0387
15 Cr + 25 Ni / Kh 15 N25	355-0381
15 Cr + 25 Ni	355-0404
15 Cr + 25 Ni + 3 Mo	355-0407
15 Cr + 25 Ni + 3 Mo + 3 W	355-0390
15 Cr + 25 Ni + 3 W	355-0406
15 Cr + 25 Ni + 3 W / Kh 15 N25 M3 V3	355-0399
15 Cr + 25 Ni + 3 W / Kh 15 N25 M3 V3 T Yu	355-0388
15 Cr + 34 Ni + 3 W / Kh 15 N35 V M T	355-0223
15 Cr + 34 Ni + 3 W / Kh 15 N35 V2 M2 T R	355-0374
15 Cr + 36 Ni + 3 W / Kh N35 V K T	355-0482
15 Cr + 36 Ni + 3 W / Kh N35 V T (EI 612)	355-0481
15 Cr + 37 Ni	355-0008
15 Cr + 10 Nb + 5 Mo + 1 Al / 70 N Kh B M Yu	322-1354
16 Cr / 16 Kh V I (EP 638)	322-0941
16 Cr + 13 Mn / G 13 Kh 16	322-0971
16 Cr + 20 Al	304-0087
(16-50) Cr + 20 Al	322-1423
16 Cr + 2 Ni / EP 479	322-0674
16 Cr + 4 Ni / 1 Kh 16 N4 B	322-1326
16 Cr + 6 Ni / Kh 16 N6	322-1325
16 Cr + 7 Ni / S N 2 A (EP 288)	322-0927
16 Cr + 13 Ni + 2 Mo / 1 Kh 16 N13 M2 B	322-0569
16 Cr + 15 Ni + 3 Mo / 0 Kh 16 N15 M3 (EI 844)	322-0869
16 Cr + 15 Ni + 3 Mo / Kh 16 N15 M3 B (EI 847)	322-0870
16 Cr + 16 Ni + 2 W / 1 Kh 16 N16 V2 B R	322-1015
16 Cr + 16 Ni + 3 W / EI 714	355-0315
16 Cr + 25 Ni + 6 Mo / 1 Kh 16 N25 M6 (EI 395)	355-0373
16 Cr + 26 Ni + 7 Mo / Kh 16 N26 M7	355-0479
16 Cr + 37 Ni + 3 W / 0 Kh16 N36 V3 T	355-0328
(16-50) Cr + (5-50) Al	322-0944
16 Cr + 2 Nb / 1 Kh 16 S2 M B	322-0490
16 Cr + 1 Si + 0.6 Al / Kh 16 S Yu	322-0936
17 Cr	322-0402
17 Cr / Kh 17	322-0890
(17-50) Cr	322-1226
17 Cr + 1 Al / Kh 18 S Yu (EI 484)	322-0934

XII. USSR STAINLESS STEELS (continued)

	Material Number
17 Cr + + 13 Ni + (0-9) Al	322-0904
17 Cr + 10 Mn / 1 Kh 17 A G 10	322-1011
17 Cr + 2 Ni	322-0959
17 Cr + 2 Ni	322-0958
17 Cr + 2 Ni / Kh 17 N2	322-0790
17 Cr + 4 Ni / 0 Kh 17 N4	322-0687
17 Cr + 7 Ni / 0 Kh 17 N7 Yu	322-0735
17 Cr + 7 Ni + 0.6 Al	322-0754
17 Cr + 10 Ni / 1 Kh 17 N 10 T	322-0957
17 Cr + 11 Ni	322-0872
17 Cr + 16 Ni / 0 Kh 17 N16	322-0907
17 Cr + 16 Ni + 3 Mo / 0 Kh 17 N16 M3 T	322-0884
(17-50) Cr + Ni + Mn	322-0806
18 Cr + 1 C / 9 Kh 18	322-0906
18 Cr + 9 Ni / 1 Kh 18 N9	322-0789
18 Cr + 8 Mn / 0 Kh 18 G8 N2 T	322-0966
18 Cr + 0.5 Mo / 11 Kh 18 M	322-1062
18 Cr + 3 Ni	322-0960
18 Cr + 3 Ni	322-0962
18 Cr + 8 Ni	322-1147
18 Cr + 8 Ni / 18-8	322-0001
18 Cr + 9 Ni / 2 Kh 18 N9 S	322-0991
18 Cr + 9 Ni / 1 Kh 18 N9	322-0789
18 Cr + 9 Ni + 2 Mo / EI 783	322-0728
18 Cr + 10 Ni	322-1018
18 Cr + 10 Ni	322-1019
18 Cr + 10 Ni	322-1020
18 Cr + 10 Ni	322-1021
18 Cr + 10 Ni / Kh 18 N9 L	322-1017
18 Cr + 10 Ni / Kh 18 N10 T	322-1025
18 Cr + 10 Ni / 12 Kh 18 N10 T	322-1134
18 Cr + 10 Ni / 1 Kh 18 N10 T	322-0670
18 Cr + 11 Ni / EI 849	322-0871
18 Cr + 12 Ni + 4 Si / EI 854	322-1009
18 Cr + 13 Ni + 2 Mn / EI 718	322-0486
18 Cr + 25 Ni / Kh 18 N25	355-0290
18 Cr + 25 Ni + 2 Si / Kh 18 N25 S2 (E Ya S3)	355-0106
18 Cr + 25 Ni + 3 Si	355-0208
18 Cr + 1 Ti / Kh 18 M T F	322-0891
19 Cr + 8 Ni	322-0312
19 Cr + 9 Ni	322-0129
19 Cr + 9 Ni / EI 606	322-0011
19 Cr + 10 Ni / 1 Kh 18 N9 T	322-0052
19 Cr + 10 Ni + 1 Mo / EI 572	322-0010
19 Cr + 16 Ni	322-1279
20 Cr	322-0150
20 Cr + 20 Al	304-0116

XII. USSR STAINLESS STEELS (continued)

	Material Number
20 Cr + 10 Ni / Kh 20 N10	322-0805
20 Cr + 25 Ni	355-0505
21 Cr	322-0403
21 Cr + 8 Mn + 6 Ni / Kh 21 G7 A N5	322-0723
21 Cr + 5 Ni / 1 Kh 21 N5 T	322-0970
21 Cr + 12 Ni + 2 Si / Kh 20 N12 S2 (EI 211)	322-0696
21 Cr + 16 Ni + 8 Mn / 000 Kh 21 N16 A G8	322-1186
21 Cr + 1 Si / Kh 21 L	322-0808
22 Cr + 1 Ce	322-0809
22 Cr + 1.0 Si	322-0914
22 Cr + 20 Ni / Kh 22 N20	322-0734
23 Cr	322-1347
23 Cr + 3 Al / 3 Kh 23 Yu3 L	322-1393
23 Cr + 3 Al	322-1394
23 Cr + 13 Ni / Kh 23 N13	322-0983
23 Cr + 18 Ni / Kh 23 N18	322-0736
23 Cr + 18 Ni / Kh 23 N18 Ms B	322-0982
23 Cr + 18 Ni / Kh 23 N18 K B	322-0980
23 Cr + 18 Ni / Kh 23 N18 Ms Ts	322-0981
23 Cr + 28 Ni + 3 Cu / 0 Kh 23 N28 M3 D3 T (EI 943)	355-0522
24 Cr	322-0404
25 Cr / Kh 25	322-0965
(25-50) Cr	322-0167
25 Cr + 16 Ni + 6 Mn / Kh 25 N16 G7 A R (EI 835)	322-0926
25 Cr + 12 Ni / Kh 25 N12 A R	322-0785
25 Cr + 1 Si / Kh 25 T	322-0972
26 Cr	322-0675
26 Cr + 0.5 Al	322-0170
27 Cr	322-0175
27 Cr + 5 Al / 0 Kh 27 Yu 5 A (EI 626)	322-0912
28 Cr	322-0928
29 Cr	322-0181
30 Cr	322-0787
30 Cr / Zh 27	322-0556
30 Cr + 0.6 Al	322-0182
31 Cr + 0.6 Al	322-0184
32 Cr + 20 Al	322-0909
(33-35) Cr	322-0823
33 Cr + 20 Co	322-1221
(33-35) Cr + (0-5) Si	322-0822
35 Cr	322-1227

XII. USSR STAINLESS STEELS (continued)

		<u>Material Number</u>
36 Cr + 16 Co		322-1220
36 Cr		322-1222
37 Cr + 0.7 Al		322-0189
38 Cr		322-1356
40 Cr		322-1223
40 Cr + 20 Al		322-1421
42 Cr		322-0207
43 Cr + 15 Al		322-1420
43 Cr		322-1224
45 Cr + 0.9 Al		322-0211
47 Cr + 5 Al		322-1419
48 Cr		322-1225
Cr		322-0394
Cr + Ni		322-0002

XIII. YUGOSLAVIAN STAINLESS STEELS

13 Cr + 2 Mo		322-1647
13 Cr + 3 Mo		322-1648
13 Cr + 3 Mo + 3 Ni		322-1650
14 Cr + 4 Ni + 3 Mo		322-1649
18 Cr + (1-21) Ni		322-0903
18 Cr + 5 Ni		322-1633
18 Cr + 5 Ni		322-1632
18 Cr + 10 Ni		322-1631
18 Cr + 10 Ni		322-1630

PART B
TECHNICAL CODING

SEARCH PARAMETERS
(ORDERED BY MATERIAL NUMBER)

TECHNICAL CODING
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
G	322-0052	S	C	N	R	T039236	1966	A	322-0112	S	G	C	E	T006247	1936
C	322-0052	S	C	N	R	T041003	1966	A	322-0112	S	G	C	E	T009151	1946
C	322-0052	S	C	N	R	T041881	1966	A	322-0112	S	G	C	E	T011299	1953
G	322-0052	S	C	N	R	T050002	1968	A	322-0112	S	C	N	E	T015145	1953
G	322-0052	S	C	N	R	T050521	1968	A	322-0112	S	C	N	E	T040164	1938
G	322-0052	S	C	N	R	T063497	1974	A	322-0112	S	C	N	E	T042776	1967
C	322-0052	S	C	N	R	T081497	1974	A	322-0112	S	C	N	E	T049745	1966
C	322-0052	S	C	N	R	T082650	1974	A	322-0112	S	C	N	E	T033173	1952
C	322-0052	S	C	N	R	T052550	1974								
I	322-0052	S	C	N	R	T043744	1962	A	322-0120	S	G		I	T036752	1951
I	322-0052	S	C	N	R	T046745	1965	A	322-0120	S	G		I	T046752	1951
N	322-0052	S	C	H	E	T052493	1964	A	322-0120	S	D		E	T009376	1942
N	322-0052	S	C	H	E	T052454	1964	A	322-0120	S	D	N	E	T025424	1959
N	322-0052	S	C	N	R	T058266	1969	A	322-0120	S	D	N	E	T046466	1965
N	322-0052	S	C	N	R	T059797	1968	E	322-0120	S	D	N	E	T046466	1965
N	322-0052	S	C	N	R	T059602	1968	N	322-0120	S	D	N	E	T046406	1965
N	322-0052	S	C	N	R	T059803	1968	R	322-0120	S	D	N	E	T03735	1947
N	322-0052	S	C	N	R	T084942	1974	A	322-0120	S	D	N	E	T024435	1953
N	322-0052	S	C	N	R	T084542	1974								
N	322-0052	S	C	H	E	T092059	1976	A	322-0129	S	C	N	R	T025154	1957
N	322-0052	S	C	N	E	T092059	1976								
A	322-0052	S	C	N	E	T092059	1976	A	322-0147	S	D		G	T006719	1938
WF	322-0052	S	C	N	R	E066460	1974	A	322-0149	S	D		E	T000486	1954
WF	322-0052	S	C	N	R	E066460	1974								
WF	322-0052	S	C	H	E	E066461	1974	A	322-0150	S	T		I	T006752	1951
WF	322-0052	S	C	N	E	E066461	1974	A	322-0150	S	G		I	T006752	1951
								E	322-0150	S	T	N	R	T035615	1965
A	322-0077	S	G		G	T036719	1938	E	322-0150	S	D	N	R	T035615	1965
								E	322-0150	S	D	N	E	T039718	1965
A	322-0078	S	D	N	J	T016291	1925	E	322-0150	S	T	N	E	T039718	1965
AS	322-0078	S	C	N	R	E095436	1975								
AS	322-0078	S	C	N	R	E095437	1975	A	322-0154	S	C		G	T008319	1936
CC	322-0078	S	C	N	R	E095436	1975								
CC	322-0078	S	C	N	R	E095437	1975	A	322-0156	S	D		G	T006719	1938
F	322-0078	L	C	H	E	T002454	1947	A	322-0156	S	D		G	T008319	1936
F	322-0078	L	C	H	R	T005576	1967								
F	322-0078	O	C	H	R	T049576	1967	A	322-0157	S	C		I	T006523	1952
H	322-0078	S	C	N	E	T081232	1975								
H	322-0078	S	C	N	R	T081706	1975	A	322-0158	S	C		E	T001927	1947
N	322-0078	S	C	N	E	T057684	1924								
FP	322-0078	S	C	N	R	E095436	1975	A	322-0162	S	D		E	T000486	1954
FP	322-0078	S	C	N	E	E095437	1975								
R	322-0078	L	C	N	E	T004463	1947	A	322-0163	S	T		I	T006752	1951
RI	322-0078	S	C	N	R	E095436	1975	A	322-0163	S	C		I	T006752	1951
RI	322-0078	S	C	N	E	E095437	1975								
								A	322-0166	S	C		G	T008319	1936
A	322-0080	S	C		G	T008319	1936	F	322-0167	L	C		R	T003366	1947
A	322-0086	S	C		G	T006719	1938								
A	322-0086	S	C		G	T008319	1936	A	322-0169	S	C	N	E	T009376	1942
								A	322-0169	S	C	N	J	T099799	1979
A	322-0087	S	G		G	T008319	1936	A	322-0169	S	D	L	J	T099799	1979
A	322-0088	S	C		G	T008319	1936	F	322-0170	L	D		R	T003366	1947
A	322-0091	S	C	N	G	T016063	1953	A	322-0173	S	C		G	T006719	1938
								A	322-0173	S	D		E	T009369	1941
A	322-0093	S	G		E	T006247	1936	E	322-0173	S	C		E	T009369	1941
A	322-0093	S	G		E	T009351	1946								
A	322-0093	S	C	N	E	T011349	1963	A	322-0175	S	D		E	T009376	1942
A	322-0093	S	C	N	E	T015645	1949	A	322-0175	S	D	N	E	T098162	1978
A	322-0093	S	C	N	E	T040268	1938	C	322-0175	S	C	N	E	T098162	1978
								E	322-0175	S	D	N	E	T098162	1978
C	322-0094	S	G	N	F	T031957	1958	MP	322-0175	S	C	N	R	E107558	1977
								MP	322-0175	S	C	N	E	E123638	1977
A	322-0096	S	T		I	T036752	1951	N	322-0175	S	C	N	E	T098162	1978
A	322-0096	S	C		I	T006752	1951	A	322-0175	L	O		E	T044463	1947
A	322-0096	S	C	N	G	T015624	1929								
MP	322-0096	S	C	N	E	E107558	1977	A	322-0180	S	C		G	T008319	1936
PP	322-0096	S	C	N	E	E123638	1977								
								MP	322-0181	S	C	N	R	E107558	1977
A	322-0099	S	C	N	R	T001646	1951	MP	322-0181	S	C	N	E	E123638	1977
A	322-0099	S	C	N	R	T019660	1935	A	322-0181	L	O		E	T044463	1947
A	322-0099	S	C	N	E	T006046	1972								
ER	322-0099	S	C	N	R	T003108	1951	F	322-0182	L	D		R	T003366	1947
ER	322-0099	S	C	N	E	T003108	1951								
								F	322-0184	L	D		N	T003366	1947
A	322-0110	S	C		G	T006719	1938								
A	322-0110	S	C		G	T008319	1936	F	322-0189	L	D		A	T003366	1947

TECHNICAL CODING
SEARCH PARAMETERS OBTAINED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPIC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPIC/EPIC Accession Number	Year
F	322-0211	L	C		R	T013386	1947	A	322-0421	S	C	N	G	T024469	1961
A	322-0213	S	C	N	E	T011399	1953	N	322-0421	S	C	N	E	T046645	1950
A	322-0213	S	T	N	E	T025045	1952		322-0421	S	C	N	E	T013102	1965
A	322-0213	S	C	N	E	T015045	1952	A	322-0423	S	C	N	G	T024469	1961
A	322-0234	S	C	N	J	T010366	1936	N	322-0423	S	C	N	E	T046645	1950
E	322-0234	S	C	N	J	T010366	1936	A	322-0476	S	C	N	G	T024469	1961
A	322-0236	S	C	N	R	T025154	1957	A	322-0486	S	C	N	R	T023641	1956
A	322-0236	S	C	N	R	T031195	1955	E	322-0490	S	C	N	R	T024539	1961
E	322-0236	S	C	N	R	T017356	1959	E	322-0490	S	C	N	E	T025349	1961
E	322-0236	S	C	N	E	T021240	1959	E	322-0490	S	C	N	R	T036115	1965
A	322-0247	S	C	N	R	T010449	1938	E	322-0491	S	T	N	R	T036115	1965
A	322-0248	S	C	N	E	T011399	1953	E	322-0491	S	T	N	E	T036115	1965
A	322-0248	S	C	N	E	T025345	1952	E	322-0491	S	C	N	E	T036115	1965
A	322-0248	S	T	N	E	T025045	1952	E	322-0491	S	C	N	E	T036115	1965
A	322-0265	S	C	N	G	T016074	1960	R	322-0495	S	C	N	G	T020276	1933
A	322-0305	S	C	N	J	T014103	1936	A	322-0512	S	C	N	R	T017035	1959
A	322-0306	S	C	N	J	T014103	1936	A	322-0512	S	C	N	R	T031195	1955
A	322-0311	S	C	N	E	T020610	1964	A	322-0512	S	C	N	R	T043552	1954
A	322-0311	S	C	N	E	T024107	1959	A	322-0512	S	C	N	R	T043597	1954
A	322-0311	S	C	N	G	T004469	1961	A	322-0512	S	C	N	E	T070732	1973
E	322-0311	S	C	N	E	T020610	1964	C	322-0512	S	C	N	E	T070732	1973
E	322-0311	S	C	N	E	T024107	1959	E	322-0512	S	C	N	R	T017035	1959
A	322-0312	S	C	H	R	T016260	1935	E	322-0512	S	C	N	E	T021240	1959
E	322-0312	S	C	H	R	T016260	1935	E	322-0512	S	C	N	R	T024539	1961
E	322-0344	S	C	N	F	T016969	1951	E	322-0512	S	C	N	E	T025349	1961
A	322-0362	S	C		G	T008319	1936	E	322-0512	S	C	H	R	T026426	1961
N	322-0362	S	C	N	E	T057664	1924	E	322-0512	S	C	H	R	T036115	1965
A	322-0366	S	C	N	J	T023643	1935	E	322-0512	S	T	N	R	T036115	1965
A	322-0367	S	C	N	J	T013643	1935	E	322-0512	S	T	N	E	T036115	1965
A	322-0371	S	C	H	G	T017356	1962	E	322-0512	S	C	N	E	T036115	1965
A	322-0371	S	T	H	G	T017356	1962	E	322-0512	S	C	N	E	T036115	1965
G	322-0371	S	C	N	G	T013508	1977	E	322-0512	S	C	N	E	T036115	1965
MM	322-0371	S	C	N	G	E105146	1976	E	322-0512	S	C	N	E	T036115	1965
A	322-0394	S	C		E	T025256	1942	MM	322-0512	S	C	N	R	E082569	1973
A	322-0394	S	T	N	R	T010441	1950	R	322-0512	S	C	N	R	T024539	1961
A	322-0394	S	C	N	R	T021042	1959	A	322-0521	S	C	N	R	T027051	1962
A	322-0394	S	C	N	E	T013457	1959	A	322-0521	S	C	N	E	T032673	1962
E	322-0394	S	T	N	E	T010441	1950	N	322-0521	S	C	H	R	T052497	1964
E	322-0394	S	T	L	E	T013386	1976	N	322-0521	S	C	H	E	T052494	1964
F	322-0394	L	C	H	I	T012404	1947	A	322-0534	S	C	N	G	T026695	1930
N	322-0394	S	C	N	E	T043335	1954	A	322-0535	S	C	N	G	T026695	1930
A	322-0401	S	C	N	G	T016260	1929	A	322-0536	S	C	N	G	T026695	1930
A	322-0401	S	C	N	G	T016260	1929	A	322-0537	S	C	N	G	T026695	1930
E	322-0401	S	C	H	E	T016260	1976	A	322-0542	S	C	N	E	T027699	1962
E	322-0401	S	C	N	E	T016260	1976	E	322-0542	S	C	N	E	T027699	1962
A	322-0402	S	C	N	G	T016260	1929	A	322-0547	S	C	N	E	T011399	1953
MM	322-0402	S	C	N	E	E107958	1977	A	322-0547	S	T	N	E	T025045	1952
MM	322-0402	S	C	N	E	E107958	1977	A	322-0547	S	C	N	E	T025045	1952
A	322-0403	S	C	N	G	T016260	1929	A	322-0556	S	J			T010124	1954
A	322-0403	S	C	N	G	T016260	1929	A	322-0556	S	C	H	R	T023447	1969
MF	322-0403	S	C	N	E	E107958	1977	D	322-0556	S	C	H	R	T023447	1969
MF	322-0403	S	C	N	E	E107958	1977	E	322-0556	S	C	H	R	T023447	1969
A	322-0404	S	C	N	G	T016260	1929	F	322-0556	L	C	H	R	T023447	1969
MP	322-0404	S	C	N	E	E107958	1977	F	322-0556	L	C	H	R	T023447	1969
MP	322-0404	S	C	N	E	E107958	1977	F	322-0556	L	C	H	R	T023447	1969
MS	322-0404	S	C	L	R	E107958	1976	F	322-0556	L	C	H	R	T023447	1969
MS	322-0404	S	C	L	E	E107958	1976	F	322-0556	L	C	H	R	T023447	1969
A	322-0419	S	C	N	G	T014469	1961	A	322-0561	S	C	N	R	T031195	1955
N	322-0419	S	C	N	E	T046645	1950	E	322-0561	S	C	N	R	T019128	1955

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Property	Material Number	Phys. State	Subject	Temperature	Language	TRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TRC/EPIC Accession Number	Year
A	322-0569	S	C	N	R	T045154	1917	I	322-0715	S	O	N	E	TC42614	1965
A	322-0569	S	C	N	R	T025154	1917	A	322-0723	S	O	N	E	TC54143	1967
E	322-0662	S	C	L	E	T040419	1918	A	322-0723	S	O	N	E	TC45271	1971
G	322-0662	S	C	L	N	T012501	1970	A	322-0723	S	O	N	E	TC474139	1971
E	322-0669	S	C	N	A	T045615	1915	E	322-0723	S	O	L	E	TC42617	1967
E	322-0669	S	T	N	R	T045615	1915	E	322-0723	S	O	L	E	TC47148	1967
E	322-0669	S	T	N	R	T04718	1915	E	322-0723	S	O	N	E	TC56085	1973
E	322-0669	S	O	N	E	T039718	1915	N	322-0723	S	O	N	E	TC59796	1968
A	322-0670	S	O	L	R	T045420	1917	N	322-0723	S	O	N	E	TC59797	1968
A	322-0670	S	O	N	R	T053519	1918	A	322-0724	S	O	N	E	TC65082	1972
A	322-0670	S	O	N	E	T053910	1968	C	322-0724	S	O	N	E	TC46509	1967
A	322-0670	S	O	L	E	T041950	1967	N	322-0724	S	O	H	E	TC54475	1969
A	322-0670	S	O	H	R	T042347	1969	A	322-0726	S	O	N	G	TC35976	1965
A	322-0670	S	O	N	R	T045271	1971	A	322-0726	S	O	N	G	TC35977	1965
A	322-0670	S	O	N	A	T046318	1971	A	322-0726	S	O	N	E	TC46115	1966
A	322-0670	S	O	N	E	T047429	1971	A	322-0726	S	O	N	E	TC46116	1966
A	322-0670	S	O	N	R	T074135	1971	A	322-0726	S	O	N	G	TC55624	1969
A	322-0670	S	O	N	E	T074136	1971	A	322-0726	S	O	N	G	TC57454	1968
A	322-0670	S	O	N	E	T074139	1971	A	322-0726	S	O	N	G	TC58970	1970
A	322-0670	S	O	N	R	T074178	1973	C	322-0726	S	O	N	G	TC58970	1970
A	322-0670	S	O	N	E	T074179	1973	C	322-0726	S	O	N	G	TC54643	1969
A	322-0670	S	O	H	E	T074555	1973	C	322-0726	S	O	N	G	TC55624	1969
C	322-0670	S	O	H	R	T042347	1969	C	322-0726	S	O	N	G	TC57454	1968
F	322-0670	L	O	H	R	T043437	1969	C	322-0726	S	O	N	G	TC58970	1970
F	322-0670	L	O	H	R	T061068	1970	E	322-0726	S	O	N	G	TC55624	1969
F	322-0670	L	O	H	E	T062272	1969	E	322-0726	S	O	N	G	TC58970	1970
F	322-0670	L	O	H	E	T064145	1971	N	322-0726	S	O	N	G	TC55624	1969
F	322-0670	L	O	H	R	T066084	1971	N	322-0726	S	O	N	G	TC56970	1970
G	322-0670	S	O	N	R	T035477	1971	A	322-0727	S	O	N	G	TC46358	1968
G	322-0670	S	O	H	R	T044552	1967	A	322-0728	S	O	H	E	TC52493	1964
G	322-0670	S	O	H	E	T045327	1967	N	322-0728	S	O	H	E	TC54494	1964
G	322-0670	S	O	N	R	T053674	1968	A	322-0734	S	T	N	K	TC53276	1968
G	322-0670	S	O	N	E	T053910	1968	A	322-0734	S	T	N	R	TC53276	1968
G	322-0670	S	O	N	E	T071162	1973	A	322-0734	S	T	N	E	TC53119	1968
G	322-0670	S	O	N	E	T083671	1970	A	322-0734	S	O	N	E	TC53119	1968
H	322-0670	S	O	N	R	T032275	1978	A	322-0735	S	O	N	E	TC53119	1968
H	322-0670	S	O	N	E	T034206	1976	A	322-0735	S	O	N	E	TC53119	1968
I	322-0670	S	O	N	R	T038477	1971	A	322-0735	S	O	N	E	TC53119	1968
I	322-0670	S	O	N	R	T039163	1918	A	322-0736	S	T	N	R	TC53276	1968
PH	322-0670	S	O	N	R	E110917	1971	A	322-0736	S	O	N	R	TC53276	1968
PH	322-0670	S	O	N	E	E110918	1971	A	322-0736	S	T	N	E	TC53119	1968
N	322-0670	S	O	L	R	T072304	1973	A	322-0736	S	O	N	E	TC53119	1968
N	322-0670	S	O	N	R	T074135	1971	A	322-0736	S	O	N	E	TC53119	1968
N	322-0670	S	O	L	E	T074136	1971	N	322-0736	S	O	N	R	TC75275	1973
N	322-0670	S	O	L	E	T077222	1973	N	322-0736	S	O	N	R	TC75275	1973
A	322-0674	S	O	N	R	T042346	1918	N	322-0745	S	O	N	J	TC53747	1968
A	322-0674	S	O	N	E	T044276	1918	N	322-0745	S	O	N	E	TC58235	1969
E	322-0674	S	O	N	R	T044396	1918	N	322-0746	S	O	N	J	TC53747	1968
E	322-0674	S	O	N	E	T044276	1918	R	322-0746	S	O	H	E	TC19724	1958
N	322-0674	S	O	N	R	T044396	1918	N	322-0747	S	O	N	J	TC53747	1968
N	322-0674	S	O	N	E	T044276	1918	N	322-0748	S	O	N	J	TC53747	1968
A	322-0675	S	O	N	D	T047237	1917	E	322-0749	S	O	N	J	TC55666	1969
PH	322-0675	S	O	N	R	F117546	1977	E	322-0750	S	O	N	J	TC55666	1969
PH	322-0675	S	O	N	E	E110918	1977	E	322-0751	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	E	T046390	1941	E	322-0752	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	D	T047237	1917	L	322-0753	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	E	T057698	1946	A	322-0754	S	O	N	F	TC56740	1964
N	322-0679	S	O	N	F	T033245	1912	A	322-0754	S	O	N	F	TC56740	1964
N	322-0679	S	O	N	E	T036043	1975	E	322-0754	S	O	N	F	TC56740	1964
N	322-0687	S	O	N	R	T046218	1917	I	322-0754	S	O	N	E	TC56740	1964
N	322-0687	S	O	N	E	T046219	1917	N	322-0754	S	O	N	E	TC56740	1964
A	322-0696	S	O	N	R	T046477	1915	N	322-0754	S	O	N	E	TC56740	1964
A	322-0696	S	O	N	R	T046552	1915	N	322-0754	S	O	N	E	TC56740	1964
A	322-0696	S	O	N	R	T046597	1915	N	322-0754	S	O	N	E	TC56740	1964
A	322-0709	S	O	N	E	T033243	1918	N	322-0754	S	O	N	E	TC56740	1964
E	322-0714	S	O	L	E	T040753	1911	N	322-0754	S	O	N	E	TC56740	1964
E	322-0715	S	O	N	E	T040753	1911	N	322-0754	S	O	N	E	TC56740	1964
E	322-0715	S	O	N	E	T040753	1911	N	322-0754	S	O	N	E	TC56740	1964

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Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
N	322-L754	S	C	F	E	T060E43	1975	A	322-0786	S	G	H	G	T056E75	1965
A	322-L761	S	C	N	G	T035576	1965	C	322-0786	S	D	N	G	TL55023	1965
A	322-L761	S	C	N	G	T046015	1966	C	322-0786	S	D	N	G	T064980	1969
A	322-0762	S	C	N	G	T035576	1965	E	322-0786	S	D	N	G	T055L23	1969
A	322-0762	S	C	N	G	T046015	1966	MH	322-0787	S	D	N	P	E107558	1977
A	322-L763	S	D	N	G	T035576	1965	MH	322-0787	S	D	N	E	E123E38	1977
A	322-L763	S	D	N	E	T046015	1966	A	322-0789	S	D	N	R	T036083	1963
A	322-L764	S	D	N	G	T035576	1965	E	322-0789	S	D	N	P	TL36083	1963
A	322-L764	S	D	N	E	T046015	1966	A	322-0790	S	D	N	R	TC54527	1969
A	322-L765	S	C	N	G	T035576	1965	A	322-0790	S	D	N	E	TC63241	1965
A	322-L765	S	C	N	E	T046015	1966	N	322-0790	S	D	N	P	TC68899	1971
A	322-L766	S	C	N	G	T035576	1965	N	322-0790	S	D	N	P	T068899	1971
A	322-L766	S	C	N	E	T046015	1966	A	322-0796	S	D	N	G	TC58970	1970
A	322-0767	S	C	N	G	T035576	1965	G	322-0796	S	D	N	G	TC56970	1970
A	322-0767	S	C	N	E	T046015	1966	E	322-0796	S	D	N	G	TC58970	1970
A	322-L768	S	D	N	G	T035576	1965	N	322-0796	S	D	N	G	TC56970	1970
A	322-L768	S	D	N	E	T046015	1966	A	322-0797	S	D	N	G	TC58970	1970
A	322-L769	S	D	N	G	T035576	1965	C	322-0797	S	D	N	G	TC58970	1970
A	322-L769	S	D	N	E	T046015	1966	E	322-0797	S	D	N	G	TC56970	1970
A	322-L771	S	C	N	G	T035576	1965	N	322-0797	S	D	N	G	TC58970	1970
A	322-L771	S	C	N	E	T046015	1966	A	322-0799	S	D	N	G	TC58970	1970
A	322-L772	S	C	N	G	T035576	1965	C	322-0799	S	D	N	G	TC58970	1970
A	322-L772	S	C	N	E	T046015	1966	E	322-0799	S	D	N	G	TC58970	1970
A	322-L773	S	C	N	G	T035576	1965	N	322-0799	S	D	N	G	TC56970	1970
A	322-L773	S	C	N	E	T046015	1966	N	322-0805	S	D	N	R	TC55107	1969
A	322-L774	S	C	N	G	T035576	1965	N	322-0806	S	D	N	R	TC55107	1969
A	322-L774	S	C	N	E	T046015	1966	N	322-0807	S	D	H	G	TC59423	1970
A	322-L775	S	C	N	G	T035576	1965	A	322-0808	S	D	H	R	TC55832	1969
A	322-L775	S	C	N	E	T046015	1966	A	322-0808	S	D	N	R	TC60670	1969
A	322-L776	S	C	N	G	T035576	1965	A	322-0809	S	D	H	R	TC55832	1969
A	322-L776	S	C	N	E	T046015	1966	F	322-0822	L	C	H	R	TC49811	1968
A	322-L777	S	C	N	G	T035576	1965	F	322-0822	L	C	H	E	TC60325	1968
A	322-L777	S	C	N	E	T046015	1966	F	322-0823	L	C	H	R	TC49801	1968
A	322-L778	S	C	N	G	T035576	1965	F	322-0823	L	C	H	E	TC60325	1968
A	322-L778	S	C	N	E	T046015	1966	A	322-0854	S	D	N	O	TC53132	1968
A	322-L779	S	C	N	G	T035576	1965	N	322-0854	S	D	N	O	TC53132	1968
A	322-L779	S	C	N	E	T046015	1966	E	322-0867	S	D	N	F	TC61846	1965
A	322-L781	S	C	N	G	T035576	1965	E	322-0867	S	D	N	E	TC61847	1965
A	322-L781	S	C	N	E	T046015	1966	N	322-0867	S	D	N	P	TC61846	1965
A	322-L781	S	C	N	G	T059824	1969	N	322-0867	S	D	N	E	TC61847	1965
A	322-L781	S	C	N	E	T059824	1969	E	322-0868	S	D	N	R	TC61846	1965
A	322-L782	S	C	N	G	T035577	1965	E	322-0868	S	D	N	E	TC61847	1965
A	322-L782	S	C	N	E	T046016	1966	A	322-0869	S	D	N	R	TC27623	1963
A	322-L783	S	C	N	G	T035577	1965	A	322-0869	S	D	N	E	TC59940	1963
A	322-L783	S	C	N	E	T046016	1966	ER	322-0869	S	D	N	R	E125432	1963
A	322-L784	S	C	N	G	T035577	1965	ER	322-0869	S	D	N	E	E125433	1963
A	322-L784	S	C	N	E	T046016	1966	F	322-0869	S	D	N	E	TC57134	1970
A	322-L784	S	C	N	G	T059824	1968	F	322-0869	L	C	H	E	TC57134	1970
A	322-L785	S	C	N	R	T061223	1968	N	322-0869	S	D	N	R	TC61221	1962
A	322-L785	S	C	N	E	T061224	1968	N	322-0869	S	D	N	F	TC60122	1962
A	322-L786	S	C	N	G	T059823	1969	A	322-0870	S	D	N	R	TC27623	1963
								A	322-0870	S	D	N	E	TC49442	1963
								ER	322-0870	S	D	N	R	E125432	1963
								ER	322-0870	S	D	N	E	E125433	1963
								N	322-0870	S	D	N	R	TC61221	1962
								N	322-0870	S	D	N	F	TC61222	1962
								A	322-0871	S	D	N	R	TC27623	1963
								A	322-0871	S	D	N	E	TC49442	1963
								ER	322-0871	S	D	N	R	E125432	1963
								ER	322-0871	S	D	N	E	E125433	1963
								N	322-0871	S	D	N	R	TC61221	1962

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Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
N	322-0871	S	D	N	E	T064922	1962	EA	322-0909	L	T	H	R	T064927	1972
N	322-0872	S	D	N	R	T064921	1962	EA	322-0909	L	D	H	R	T064928	1972
N	322-0872	S	D	N	E	T064922	1962	EA	322-0909	L	T	H	R	T064929	1972
F	322-0884	L	C	H	R	T053437	1969	EA	322-0909	L	D	H	R	T064922	1972
F	322-0884	L	C	H	E	T062472	1969	G	322-0912	S	C	N	P	T066501	1972
A	322-0888	S	D	N	G	T055824	1969	G	322-0912	S	C	N	P	T072276	1973
D	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	C	H	R	T072276	1973
E	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	T	H	R	T072277	1973
N	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	D	H	R	T072277	1973
E	322-0889	S	D	N	R	T087323	1971	A	322-0914	S	C	N	P	T066270	1969
E	322-0889	S	D	N	E	T090174	1971	G	322-0916	S	C	N	I	T055623	1969
N	322-0889	S	D	N	R	T050188	1963	N	322-0917	S	T	N	P	T064351	1971
N	322-0889	S	D	N	E	T063811	1971	N	322-0917	S	C	N	P	T064352	1971
E	322-0890	S	D	N	R	T074113	1970	A	322-0918	S	C	N	P	T068596	1972
E	322-0890	S	D	N	E	T074114	1970	N	322-0918	S	C	N	P	T064351	1971
N	322-0890	S	D	N	R	T050188	1963	N	322-0918	S	T	N	P	T064351	1971
N	322-0890	S	D	N	E	T063811	1971	G	322-0919	S	C	N	P	T063574	1970
N	322-0891	S	D	N	R	T050188	1963	G	322-0919	S	C	N	P	T063574	1970
N	322-0891	S	D	N	E	T053811	1971	N	322-0920	S	C	N	J	T041730	1966
F	322-0892	L	C	H	R	T058277	1968	N	322-0921	S	C	N	J	T041730	1966
F	322-0893	L	C	H	R	T058277	1968	N	322-0922	S	C	N	J	T041730	1966
E	322-0894	S	D	N	J	T034161	1964	N	322-0923	S	C	N	J	T041730	1966
N	322-0894	S	D	N	J	T034161	1964	N	322-0924	S	C	N	J	T041730	1966
E	322-0895	S	D	N	J	T034161	1964	N	322-0925	S	C	N	J	T041730	1966
N	322-0895	S	D	N	J	T034161	1964	A	322-0926	S	C	N	K	T065271	1971
A	322-0898	S	D	N	G	T064341	1971	A	322-0926	S	C	N	R	T074139	1971
PH	322-0898	S	D	N	G	E105146	1971	A	322-0926	S	C	N	R	T056515	1977
A	322-0899	S	D	N	G	T064341	1971	A	322-0926	S	C	N	R	T056515	1977
G	322-0899	S	D	N	E	T093588	1977	N	322-0926	S	C	N	R	T098515	1977
PH	322-0899	S	D	N	G	E105146	1971	N	322-0926	S	C	N	R	T098515	1977
A	322-0901	S	D	N	G	T064341	1971	N	322-0926	S	C	N	R	T098515	1977
A	322-0902	S	D	N	G	T064341	1971	A	322-0927	S	C	N	R	T065271	1971
A	322-0903	S	D	N	G	T054313	1971	A	322-0927	S	C	N	R	T074139	1971
N	322-0904	S	D	H	R	T046538	1967	N	322-0928	S	C	N	P	T062761	1971
A	322-0906	S	D	H	R	T060347	1969	A	322-0931	S	C	N	G	T046406	1965
L	322-0906	S	D	H	R	T060347	1969	E	322-0931	S	C	N	G	T046406	1965
N	322-0906	S	D	L	R	T072004	1971	N	322-0931	S	C	N	G	T046406	1965
N	322-0906	S	D	L	E	T077222	1972	N	322-0933	S	C	N	R	T060724	1934
N	322-0906	S	D	N	E	T096180	1972	N	322-0933	S	T	N	R	T060724	1934
N	322-0906	S	D	L	E	T096180	1972	N	322-0933	S	C	N	E	T066102	1972
A	322-0907	S	D	N	R	T074135	1971	A	322-0934	S	C	N	P	T066245	1972
A	322-0907	S	D	N	E	T074136	1971	A	322-0934	S	C	N	E	T066245	1972
EA	322-0907	S	D	N	R	E104917	1971	E	322-0934	S	C	N	R	T066245	1972
EA	322-0907	S	T	N	R	E104917	1971	E	322-0934	S	C	N	R	T066245	1972
EA	322-0907	S	T	N	E	E104918	1971	ER	322-0934	S	C	N	R	E101537	1972
EA	322-0907	S	C	N	E	E104918	1971	ER	322-0934	S	C	N	R	E101537	1972
PH	322-0907	S	T	N	R	E104917	1971	E	322-0935	S	C	N	R	T066245	1972
PH	322-0907	S	C	N	R	E104917	1971	E	322-0935	S	C	N	R	T066245	1972
PH	322-0907	S	T	N	E	E104918	1971	A	322-0936	S	C	N	R	T066245	1972
PH	322-0907	S	C	N	E	E104918	1971	A	322-0936	S	C	N	R	T066245	1972
PH	322-0907	S	C	N	R	E104917	1971	EA	322-0936	S	C	N	R	E101537	1972
MS	322-0907	S	T	N	R	E104917	1971	EA	322-0936	S	C	N	R	E101537	1972
MS	322-0907	S	T	N	E	E104918	1971	EA	322-0936	S	C	N	R	E101537	1972
MS	322-0907	S	L	N	E	E104918	1971	A	322-0939	S	C	N	R	T066245	1972
N	322-0907	S	L	N	R	T074135	1971	A	322-0939	S	C	N	R	T066245	1972
N	322-0907	S	L	N	E	T074136	1971	ER	322-0939	S	C	N	R	E101537	1972
A	322-0908	S	C	H	R	T061347	1969	EA	322-0939	S	C	N	R	E101537	1972
F	322-0909	L	C	H	R	T061347	1969	EA	322-0939	S	C	N	R	E101537	1972
F	322-0909	L	C	H	L	T061347	1971	A	322-0941	S	C	N	R	T074135	1971
EN	322-0909	L	C	H	R	E104917	1972	A	322-0941	S	C	N	R	T074135	1971

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Property	Material Number	Phys. State	Subject	Temperature	Language	IPAC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	IPAC/EPIC Accession Number	Year	
EX	322-1041	S	C	N	R	E061424	1973	E	322-1191	S	D	L	E	T097123	1979	
EX	322-1041	S	C	N	R	E061424	1973									
MH	322-1041	S	L	N	R	E061424	1973	E	322-1192	S	D	L	E	T097123	1979	
MH	322-1041	S	L	N	R	E061424	1973									
EX	322-1058	S	C	N	R	E070501	1974	E	322-1193	S	D	L	E	T097123	1979	
MH	322-1058	S	C	N	R	E093240	1974	E	322-1194	S	L	L	E	T097123	1979	
EX	322-1059	S	C	N	R	E070501	1974	E	322-1195	S	D	L	E	T097123	1979	
MH	322-1059	S	C	N	R	E093240	1974									
EX	322-1060	S	C	N	R	E070501	1974	E	322-1196	S	D	L	E	T097123	1979	
MH	322-1060	S	D	N	R	E093240	1974	E	322-1197	S	D	L	E	T097123	1979	
EX	322-1062	S	C	N	R	E089345	1974	E	322-1198	S	D	L	E	T097123	1979	
EP	322-1062	S	T	N	R	E089345	1974									
EP	322-1062	S	C	N	R	E093245	1974	E	322-1199	S	D	L	E	T097123	1979	
EP	322-1062	S	T	N	R	E093245	1974									
A	322-1134	S	D	N	R	T089523	1976	MH	322-1203	S	D	N	J	E113652	1975	
A	322-1134	S	D	L	R	T089523	1976	MH	322-1204	S	C	N	J	E113652	1975	
A	322-1134	S	D	N	R	T089524	1976									
A	322-1134	S	C	L	R	T099524	1976	MH	322-1205	S	C	N	J	E113652	1975	
E	322-1135	S	C	L	E	T089345	1976	MH	322-1206	S	C	N	J	E113652	1975	
E	322-1135	S	C	N	E	T099345	1976									
E	322-1137	S	C	L	E	T089345	1976	MH	322-1207	S	C	N	J	E113652	1975	
E	322-1137	S	C	L	N	E	T089345	1976	MH	322-1208	S	C	N	J	E113652	1975
E	322-1139	S	C	L	E	T089345	1976	A	322-1217	S	C	N	R	T076360	1973	
E	322-1139	S	C	N	E	T099345	1976	A	322-1217	S	C	N	R	T076360	1973	
E	322-1139	S	C	L	E	T089345	1976	MH	322-1221	S	C	N	R	E111022	1977	
E	322-1139	S	L	N	E	T089345	1976	MH	322-1221	S	D	N	E	E123635	1977	
E	322-1140	S	E	L	E	T089345	1976	MH	322-1222	S	D	N	R	E107558	1977	
E	322-1140	S	C	L	E	T099345	1976	MH	322-1222	S	C	N	E	E123635	1977	
E	322-1140	S	C	N	E	T089345	1976									
E	322-1140	S	E	N	E	T089345	1976	MH	322-1223	S	C	N	R	E107558	1977	
E	322-1141	S	C	N	E	T089345	1976	MH	322-1223	S	C	N	E	E123635	1977	
E	322-1141	S	C	L	E	T099345	1976	MP	322-1223	S	C	N	R	E107558	1977	
E	322-1141	S	C	L	E	T099345	1976	MP	322-1223	S	D	N	R	E123635	1977	
E	322-1145	S	C	N	R	T087923	1976	MH	322-1224	S	C	N	R	E107553	1977	
E	322-1145	S	D	N	R	T092074	1976	MH	322-1224	S	D	N	E	E123635	1977	
A	322-1147	S	C	N	J	T053139	1968	MH	322-1225	S	C	N	R	E107558	1977	
AS	322-1147	S	C	N	F	E112578	1976	MH	322-1225	S	C	N	E	E123635	1977	
C	322-1147	S	C	N	J	T053139	1968	MP	322-1225	S	C	N	R	E107558	1977	
E	322-1147	S	C	N	J	T053139	1968	MP	322-1225	S	C	N	E	E123635	1977	
E	322-1147	S	C	N	R	E125932	1968	PS	322-1225	S	D	L	R	E1077071	1976	
EX	322-1147	S	C	N	E	E125933	1968	NS	322-1225	S	C	L	E	E125411	1976	
MC	322-1147	S	C	L	R	E104574	1976									
C	322-1147	S	C	N	R	T072103	1973	MH	322-1226	S	C	N	R	E107558	1977	
C	322-1147	S	C	N	E	T096167	1973	MH	322-1226	S	D	N	E	E123635	1977	
C	322-1152	S	L	N	G	T036732	1963	MP	322-1227	S	C	N	R	E107558	1977	
C	322-1152	S	L	N	G	T036732	1963	MP	322-1227	S	D	N	E	E123635	1977	
MS	322-1153	S	C	N	G	E105146	1976	MP	322-1228	S	C	N	R	E107558	1977	
MS	322-1153	S	C	N	G	E105146	1976	MP	322-1228	S	C	N	E	E123635	1977	
A	322-1156	S	C	N	E	T084264	1950	ER	322-1279	S	C	L	R	E110444	1976	
N	322-1156	S	C	N	E	T084264	1950	ER	322-1279	S	D	L	E	E115985	1976	
A	322-1157	S	L	N	E	T084260	1950	MH	322-1279	S	C	L	R	E115632	1978	
N	322-1157	S	C	N	E	T084260	1950	MH	322-1279	S	D	L	E	E124010	1978	
E	322-1186	S	C	N	R	T096895	1973	M	322-1300	S	C	N	G	T091631	1977	
F	322-1187	S	C	L	E	T097123	1979	H	322-1300	S	D	N	F	T091631	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1302	S	C	N	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1302	S	D	L	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1302	S	C	L	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1302	S	C	N	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1303	S	C	L	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1303	S	D	N	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1303	S	C	L	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1303	S	C	N	O	T090474	1977	

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Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/IPC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/IPC Accession Number	Year
A	322-1325	S	C	L	R	T096515	1977	N	322-1394	S	C	N	R	T079286	1974
A	322-1325	S	C	N	R	T096515	1977								
E	322-1325	S	C	N	R	T096515	1977	N	322-1395	S	C	N	J	T081175	1970
E	322-1325	S	C	L	R	T096515	1977								
N	322-1325	S	C	L	R	T096515	1977	G	322-1398	S	C	N	E	T095583	1970
N	322-1325	S	C	N	R	T096515	1977								
A	322-1326	S	C	L	R	T096515	1977	G	322-1399	S	C	N	G	T095465	1970
A	322-1326	S	C	N	R	T096515	1977	G	322-1399	S	C	N	E	T095583	1970
N	322-1326	S	C	N	R	T096515	1977								
N	322-1326	S	C	L	R	T096515	1977	MH	322-1417	S	C	N	F	E108551	1977
A	322-1344	S	C	N	R	T096515	1977	EA	322-1419	L	C	H	F	E111534	1970
N	322-1344	S	C	N	R	T096515	1977	EA	322-1419	S	C	H	F	E111534	1970
								EA	322-1419	S	C	H	F	E111535	1970
A	322-1345	S	C	N	R	T096515	1977	EA	322-1419	L	C	H	F	E111535	1970
N	322-1345	S	C	N	R	T096515	1977								
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1420	S	C	H	R	E101534	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1420	L	C	H	R	E101534	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1420	S	C	H	R	E101535	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1420	L	C	H	R	E101535	1970
H	322-1347	S	C	N	R	E095436	1975	EA	322-1421	S	C	H	R	E101534	1970
H	322-1347	S	C	N	R	E095437	1975	EA	322-1421	S	C	H	R	E101534	1970
AD	322-1347	S	C	N	R	E095436	1975	EA	322-1421	S	C	H	R	E101535	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1421	L	C	H	R	E101535	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1423	L	C	H	R	E111534	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1423	S	C	H	R	E111534	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1423	L	C	H	R	E101535	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1423	S	C	H	R	E101535	1970
AS	322-1351	T	C	N	J	E119518	1976	F	322-1434	L	C	H	I	T002454	1947
AL	322-1351	T	C	N	J	E119518	1976								
AS	322-1352	T	C	N	J	E119518	1976	G	322-1573	S	C	N	P	T099462	1978
AL	322-1352	T	C	N	J	E119518	1976	G	322-1573	S	C	H	P	T094662	1978
EA	322-1354	S	C	N	R	E104911	1970								
EA	322-1354	S	C	N	R	E104911	1970	L	322-1586	S	C	N	E	T100163	1975
EA	322-1354	S	C	N	R	E104912	1970								
EA	322-1354	S	C	N	R	E104912	1970	A	322-1587	S	C	N	G	T055424	1969
MS	322-1356	S	C	L	R	E107271	1976	E	322-1587	S	C	N	G	T055424	1969
MS	322-1356	S	C	L	R	E107271	1976	E	322-1587	S	C	N	G	T055424	1969
MH	322-1358	S	C	N	G	E105146	1976	N	322-1587	S	C	N	G	T055424	1969
MH	322-1359	S	C	N	G	E105146	1976	A	322-1588	S	C	N	G	T055424	1969
MH	322-1360	S	C	N	G	E105146	1976	G	322-1588	S	C	N	G	T055424	1969
MH	322-1361	S	C	N	G	E105146	1976	E	322-1588	S	C	N	G	T055424	1969
MH	322-1362	S	C	N	G	E105146	1976	A	322-1591	S	C	N	G	T055424	1969
MH	322-1363	S	C	N	G	E105146	1976	C	322-1591	S	C	N	G	T055424	1969
MH	322-1364	S	C	N	G	E105146	1976	E	322-1591	S	C	N	G	T055424	1969
MH	322-1365	S	C	N	G	E105146	1976	N	322-1591	S	C	N	G	T055424	1969
MH	322-1366	S	C	N	G	E105146	1976								
MH	322-1367	S	C	N	G	E105146	1976	MH	322-1592	S	C	N	G	E107467	1976
MH	322-1368	S	C	N	G	E105146	1976	MH	322-1592	L	C	N	E	E110265	1976
MH	322-1369	S	C	N	G	E105146	1976	MH	322-1593	S	C	N	J	E111205	1977
MH	322-1370	S	C	N	G	E105146	1976	MH	322-1594	S	C	N	J	E111205	1977
MH	322-1371	S	C	N	G	E105146	1976	MH	322-1595	S	C	N	J	E111205	1977
MH	322-1372	S	C	N	G	E105146	1976	MH	322-1596	S	C	N	J	E111205	1977
F	322-1377	L	C	H	R	T076740	1971	MH	322-1597	S	C	N	J	E111205	1977
F	322-1378	L	C	H	R	T076740	1971	MH	322-1598	S	C	N	J	E111205	1977
N	322-1393	S	C	N	R	T079286	1974	MH	322-1599	L	C	N	J	E111205	1977
N	322-1394	S	C	N	R	T079286	1974	MH	322-1600	S	C	N	J	E111205	1977
								MH	322-1601	S	C	N	J	E111205	1977
								MH	322-1610	S	C	N	J	E110267	1976
								MH	322-1622	S	C	N		E102454	1973
								MH	322-1623	S	C	N	R	E102454	1973

Property	Material Number	Phys. State	Subject	Temperature	Language	TPAC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPAC/EPIC Accession Number	Year	
T	322-1624	S	C	N	H	T059313	1973	A	355-0224	S	C	N	F	T016989	1961	
A	322-1630	S	E	N	O	T059313	1970	E	355-0224	S	C	N	F	T016989	1961	
A	322-1631	S	E	N	O	T059313	1970	A	355-0251	S	C	L	J	T010087	1940	
A	322-1631	S	E	N	O	T059313	1970	G	355-0290	S	C	C	N	P	T060841	1972
A	322-1631	S	E	N	O	T059313	1970	H	355-0290	S	C	C	N	P	T060841	1972
A	322-1632	S	E	N	O	T059313	1970	N	355-0290	S	C	C	N	P	T060841	1972
A	322-1632	S	E	N	O	T059313	1970	N	355-0290	S	C	C	N	P	T060841	1972
A	322-1633	S	E	N	O	T059313	1970	N	355-0290	S	C	C	N	P	T060841	1972
A	322-1633	S	E	N	O	T059313	1970	N	355-0290	S	C	C	N	P	T060841	1972
N	322-1634	S	E	N	E	T053160	1968	R	355-0290	S	C	C	N	P	T060841	1972
N	322-1635	S	E	N	E	T053160	1968	A	355-0313	S	C	N	C	T023596	1959	
N	322-1636	S	E	N	E	T053160	1968	A	355-0315	S	C	N	R	T023596	1959	
N	322-1637	S	E	N	E	T053160	1968	A	355-0320	S	C	N	E	T026217	1963	
N	322-1638	S	E	N	E	T053160	1968	L	355-0320	S	C	N	E	T026217	1963	
N	322-1639	S	E	N	E	T053160	1968	C	355-0320	S	C	N	E	T026217	1963	
N	322-1640	S	E	N	E	T053160	1968	E	355-0320	S	C	N	E	T026217	1963	
N	322-1641	S	E	N	E	T053160	1968	E	355-0320	S	C	N	E	T026217	1963	
N	322-1642	S	E	N	E	T053160	1968	A	355-0343	S	C	N	G	T026495	1963	
N	322-1643	S	E	N	E	T053160	1968	A	355-0377	S	C	N	R	T053176	1968	
N	322-1644	S	E	N	E	T053160	1968	A	355-0377	S	C	N	R	T053176	1968	
N	322-1644	S	E	N	E	T053160	1968	A	355-0377	S	C	N	R	T053176	1968	
N	322-1645	S	E	N	E	T053160	1968	A	355-0377	S	C	N	R	T053176	1968	
N	322-1645	S	E	N	E	T053160	1968	A	355-0377	S	C	N	R	T053176	1968	
A	345-0345	S	C	N	R	T031195	1955	A	355-0374	S	C	N	R	T027051	1962	
A	345-0346	S	E	N	R	T031195	1955	A	355-0374	S	C	N	E	T030309	1962	
F	355-0308	L	C	H	R	T032215	1963	F	355-0381	L	C	H	R	T031061	1963	
A	355-0106	S	C	N	R	T028660	1955	F	355-0381	L	C	H	R	T031145	1962	
F	355-0106	L	C	H	R	T029444	1962	F	355-0381	L	C	H	R	T032215	1963	
F	355-0106	L	C	H	R	T029429	1962	F	355-0381	L	C	H	R	T032195	1963	
F	355-0106	L	C	H	R	T029430	1955	F	355-0381	L	C	H	R	T032772	1963	
A	355-0117	S	C	N	E	T000086	1954	F	355-0381	L	C	H	R	T040777	1963	
A	355-0117	S	C	N	E	T001175	1951	F	355-0381	L	C	H	R	T040777	1963	
A	355-0117	S	C	N	E	T000247	1956	F	355-0381	L	C	H	R	T043175	1966	
A	355-0117	S	C	N	E	T000241	1946	F	355-0381	L	C	H	R	T043175	1966	
A	355-0117	S	C	N	E	T011309	1963	F	355-0381	L	C	H	R	T043175	1966	
A	355-0117	S	C	N	E	T011365	1929	F	355-0381	L	C	H	R	T045576	1967	
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