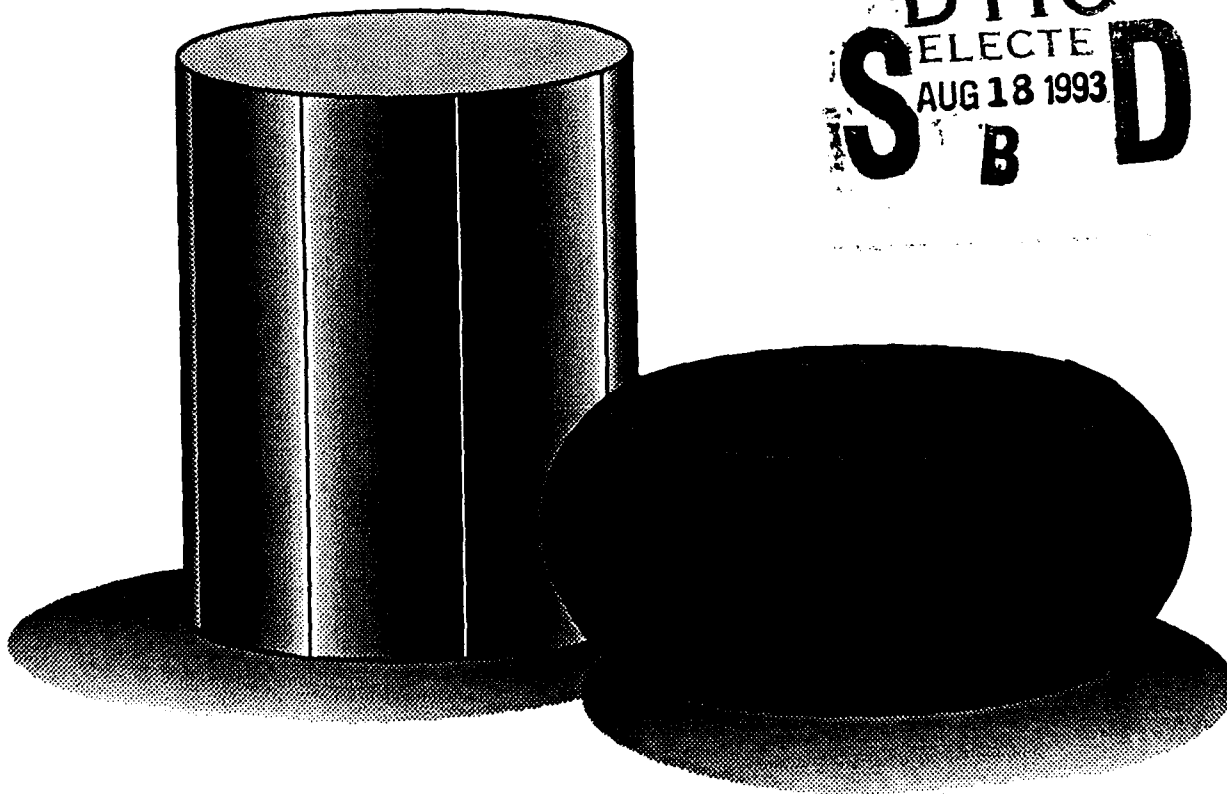


AD-A268 265



Atlas of Formability

Aluminum - 1.5% Copper Flow Stress Curves



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13. ABSTRACT (Maximum 200 words) In this investigation, flow behavior of Aluminum-1.5% Copper alloy was studied by conducting compression tests over a wide range of temperatures and strain rates. Stress-strain curves were recorded for each test condition. These data are essential in metalworking process design or finite element analysis of high temperature deformation.				
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**ATLAS OF FORMABILITY
ALUMINUM - 1.5% COPPER**

by

Howard A. Kuhn

**National Center for Excellence in Metalworking Technology
1450 Scalp Avenue
Johnstown, PA 15904**

for

**Naval Industrial Resource Support Activity
Building 75-2, Naval Base
Philadelphia, PA 19112-5078**

September 30, 1991

The views, opinions, and/or findings contained in this report are those of the authors and should not be construed as an official Department of the Navy position, policy, or decision, unless so designated by other documentation

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Aluminum - 1.5% Copper

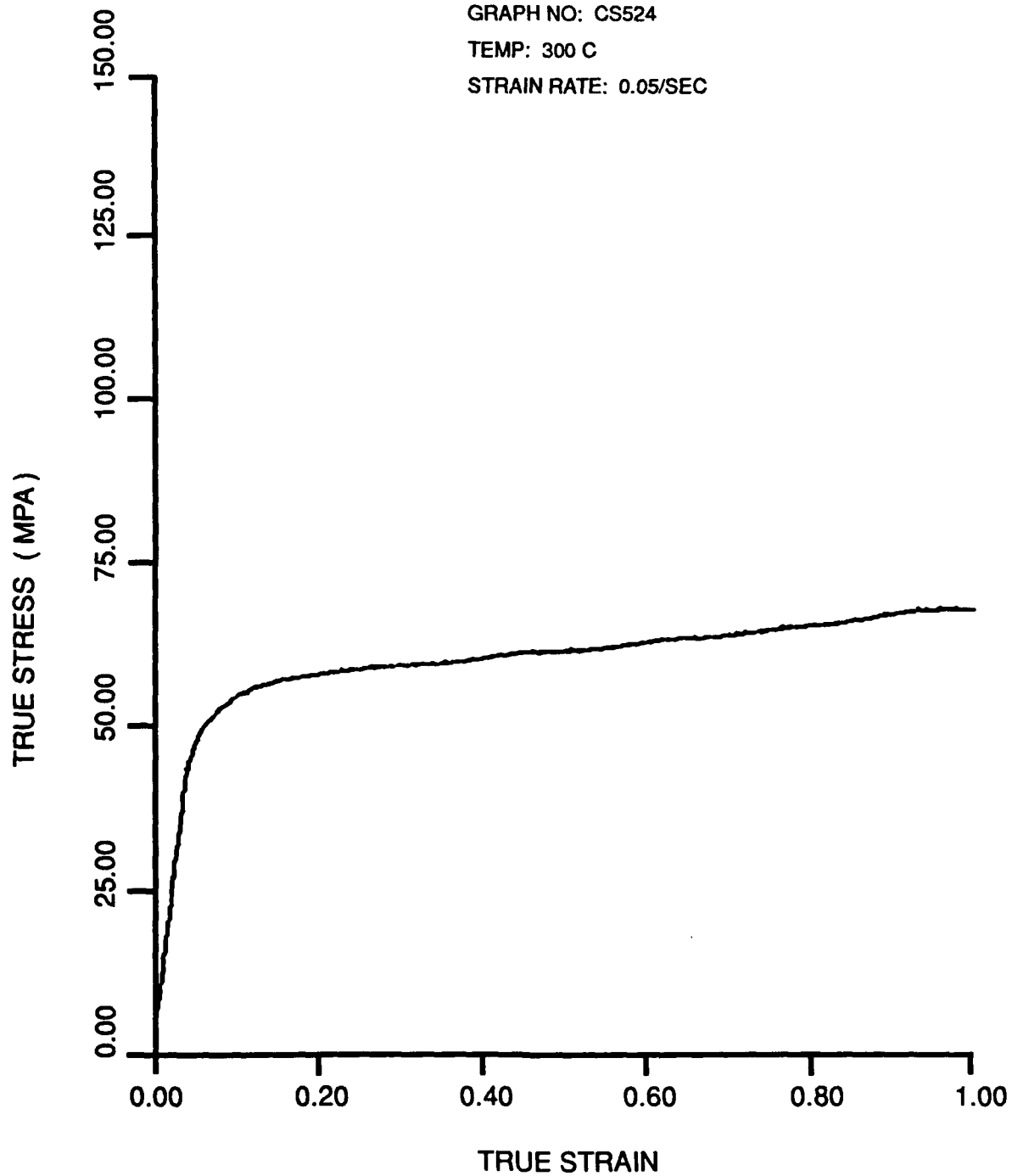
Testing Parameters

Strain Rate (1/sec.)	Temperature (deg. C)	Graph Number	Page Number
0.05	300	CS524	2
0.05	400	CS520	3
0.05	500	CS521	4
0.05	Combination	CS530	5
0.3	350	CS518	6
0.3	450	CS519	7
0.3	Combination	CS531	8
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1.5	400	CS501	11
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15.0	300	CS516	17
15.0	400	CS510	18
15.0	500	CS512	19
15.0	Combination	CS534	20

GRAPH NO: CS524

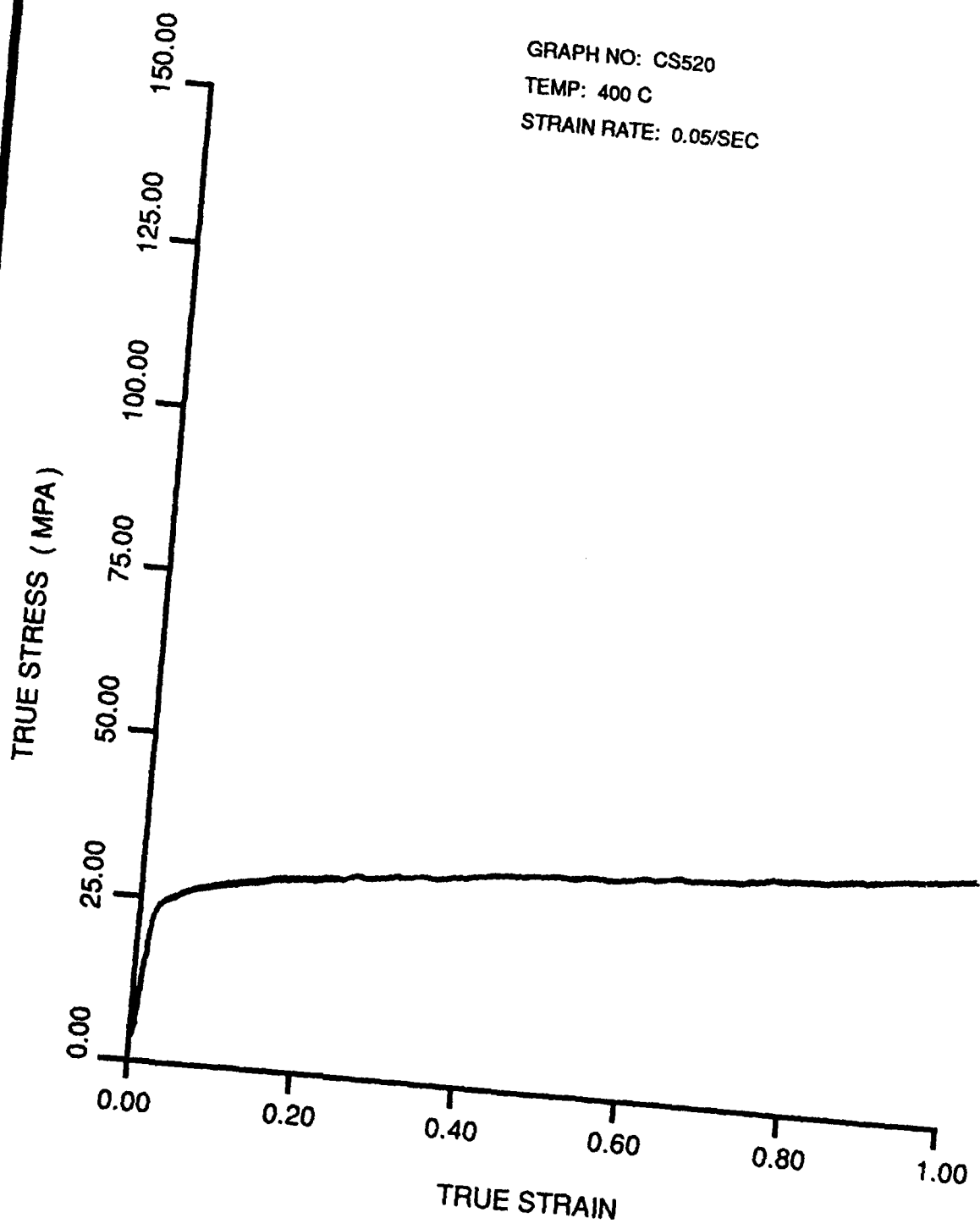
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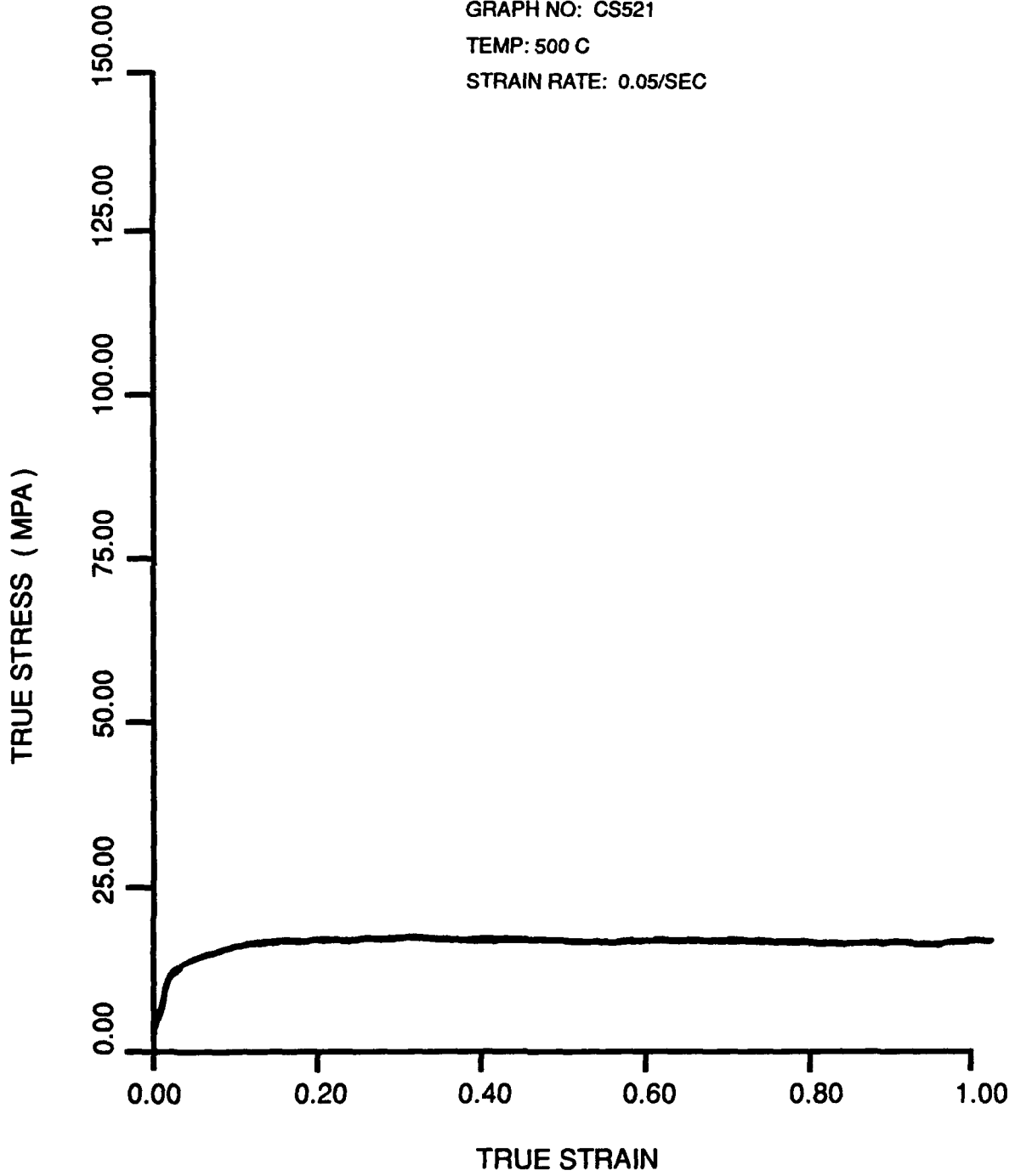
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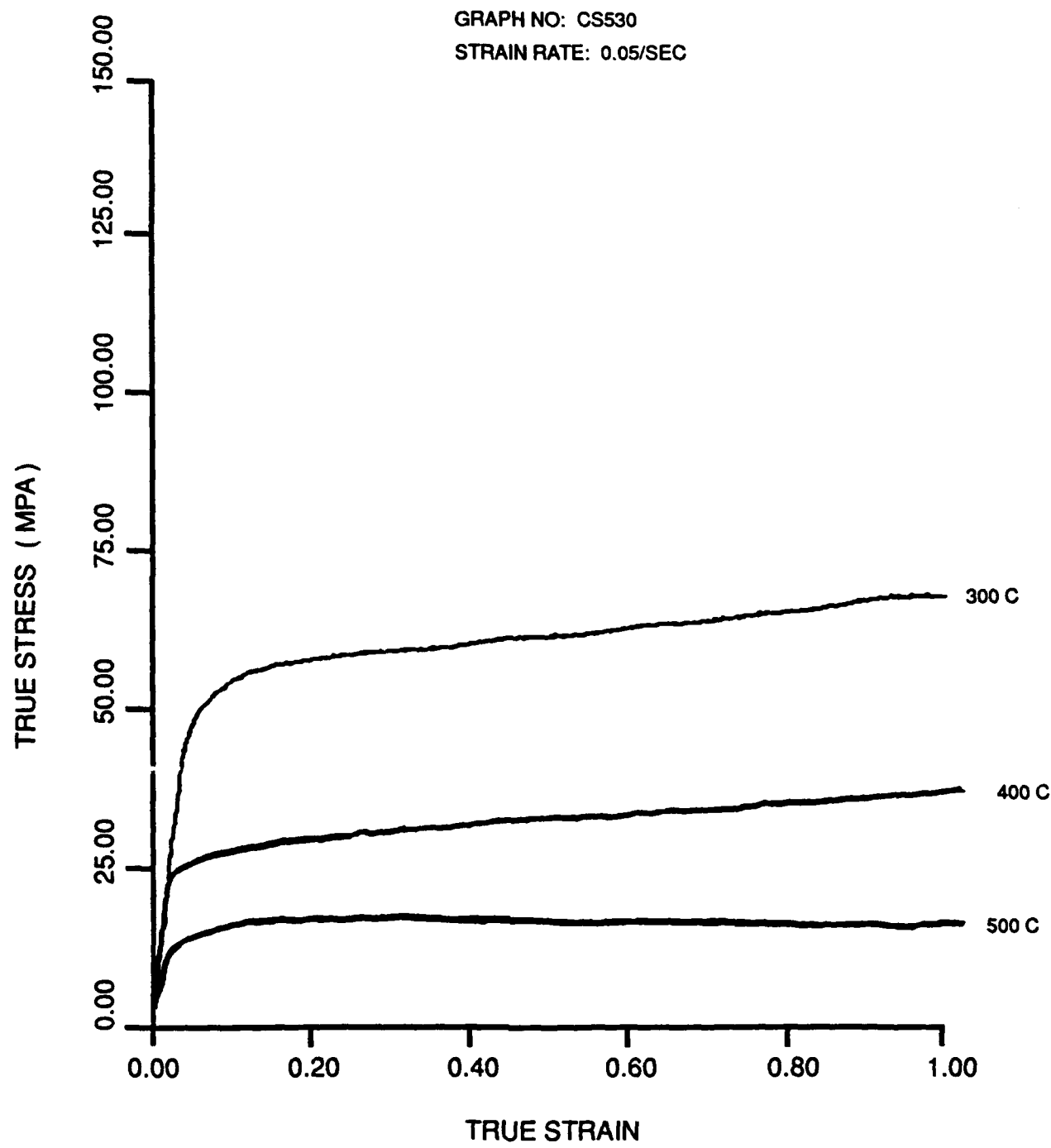
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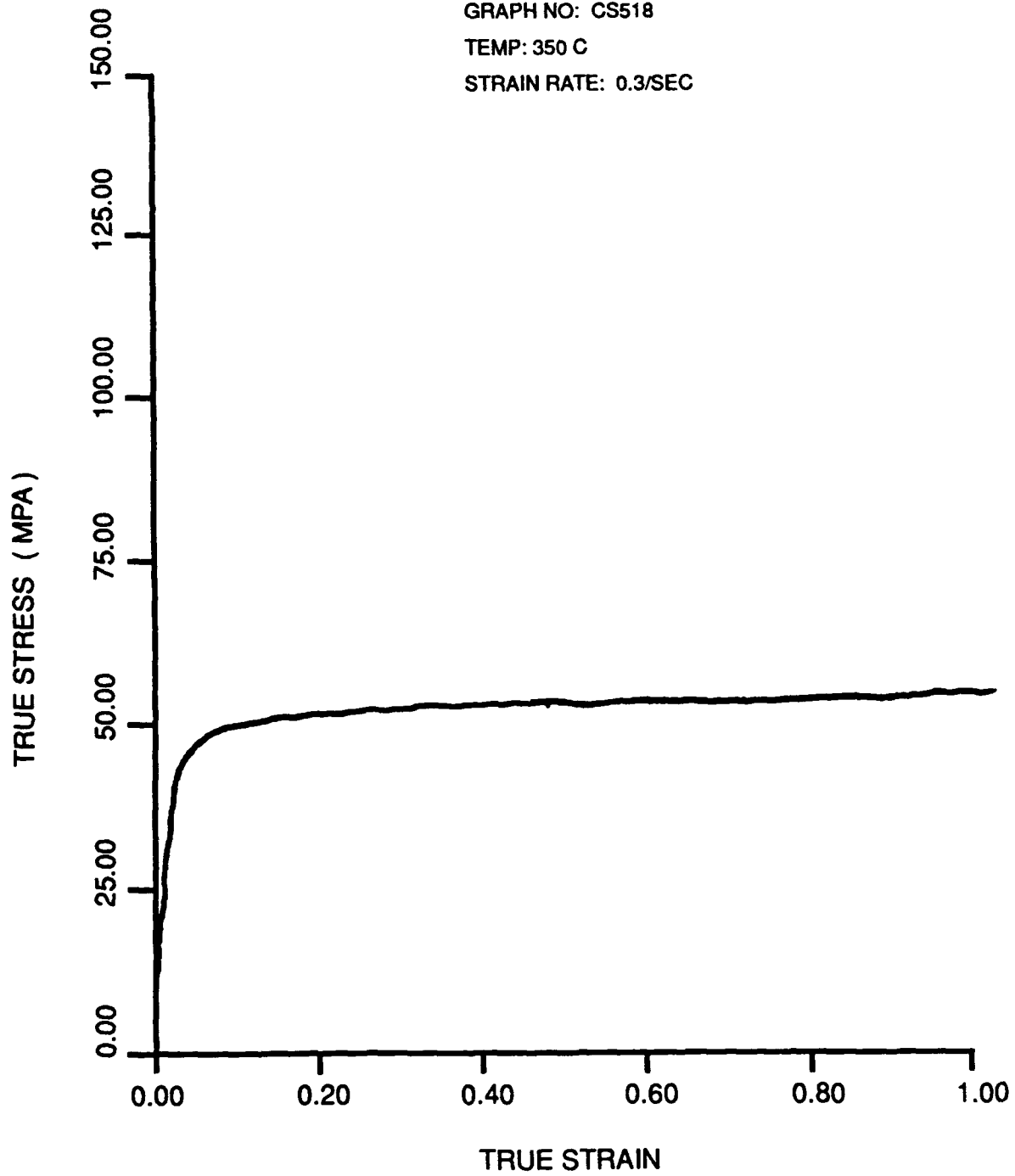
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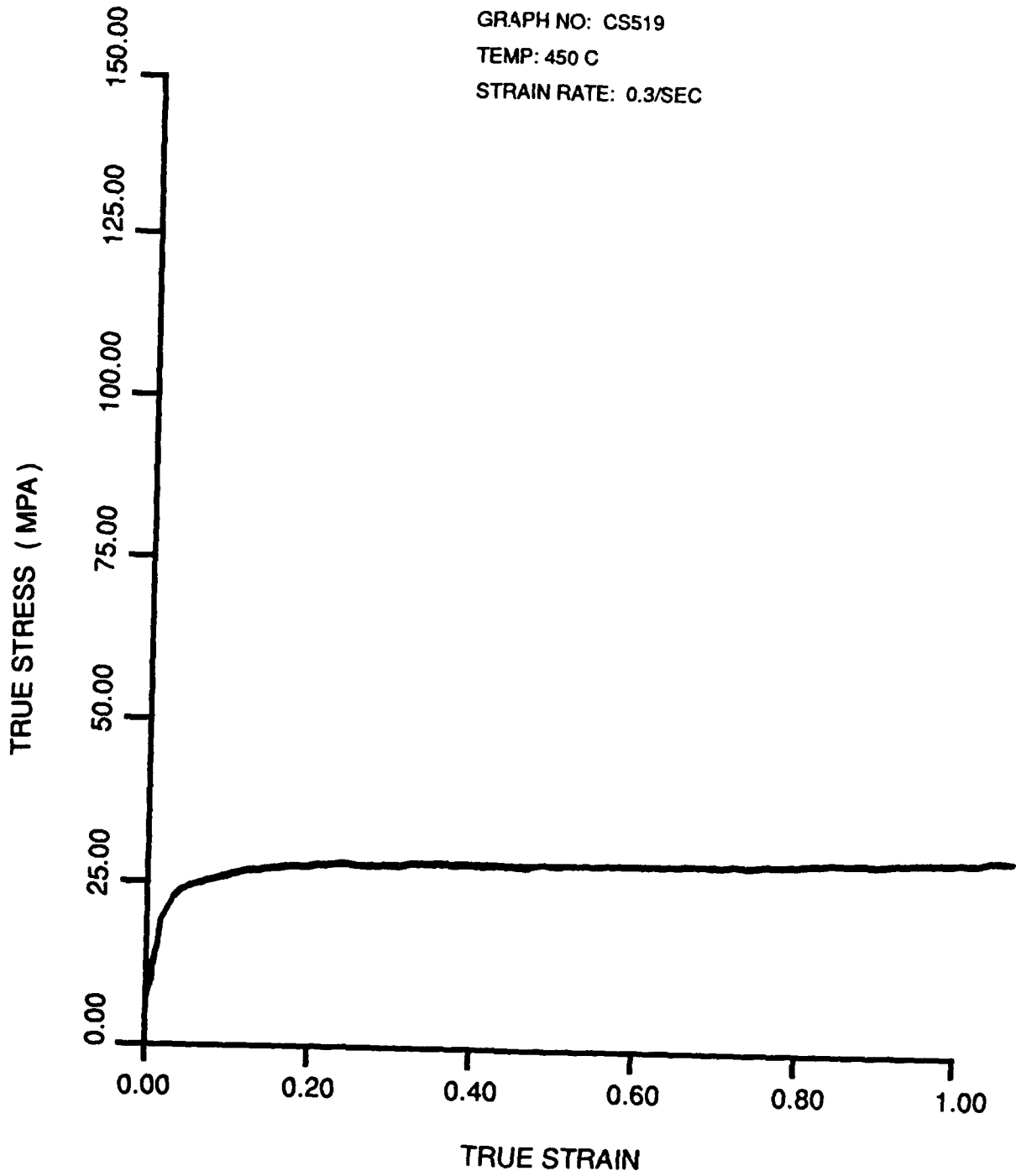
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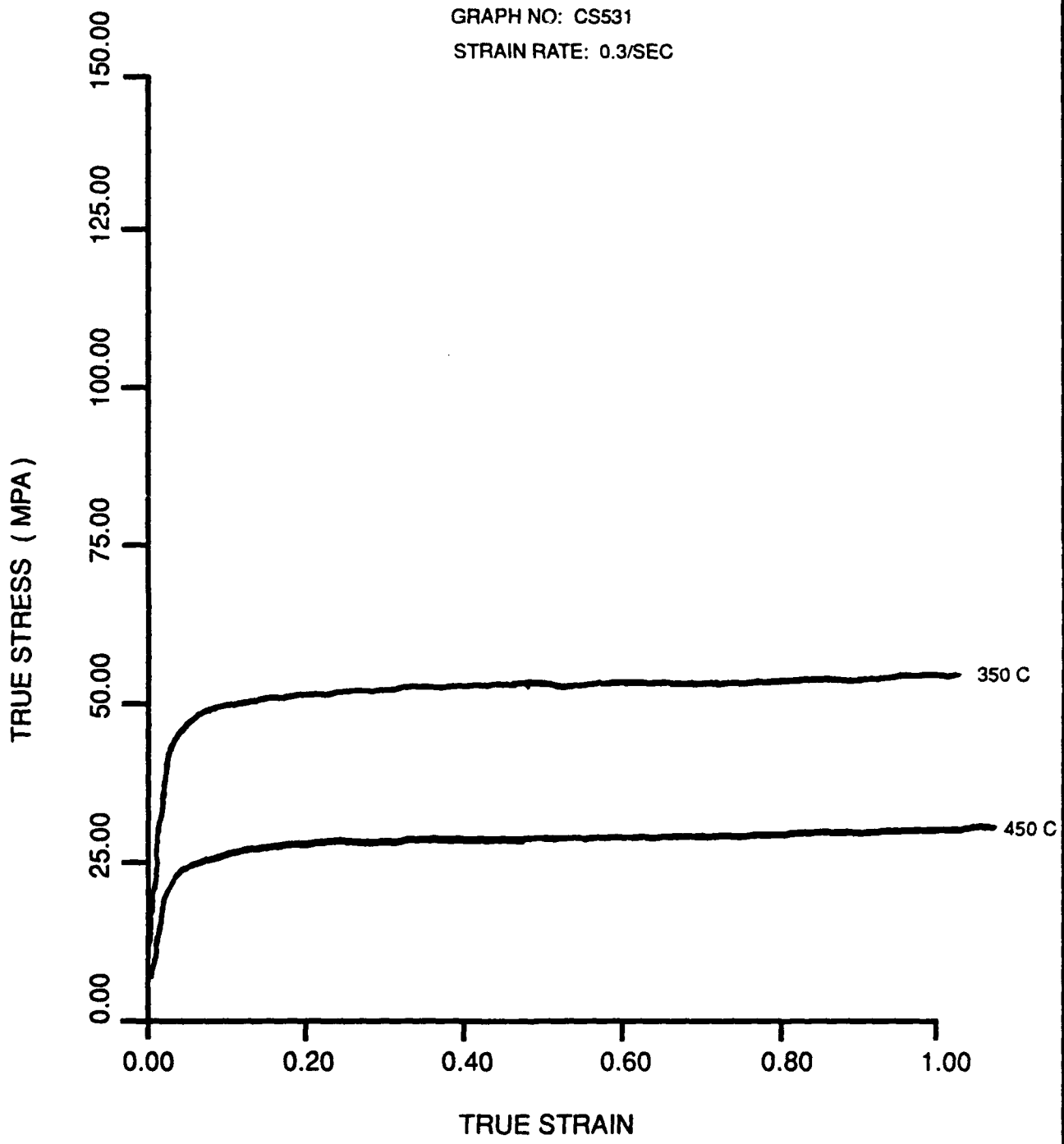
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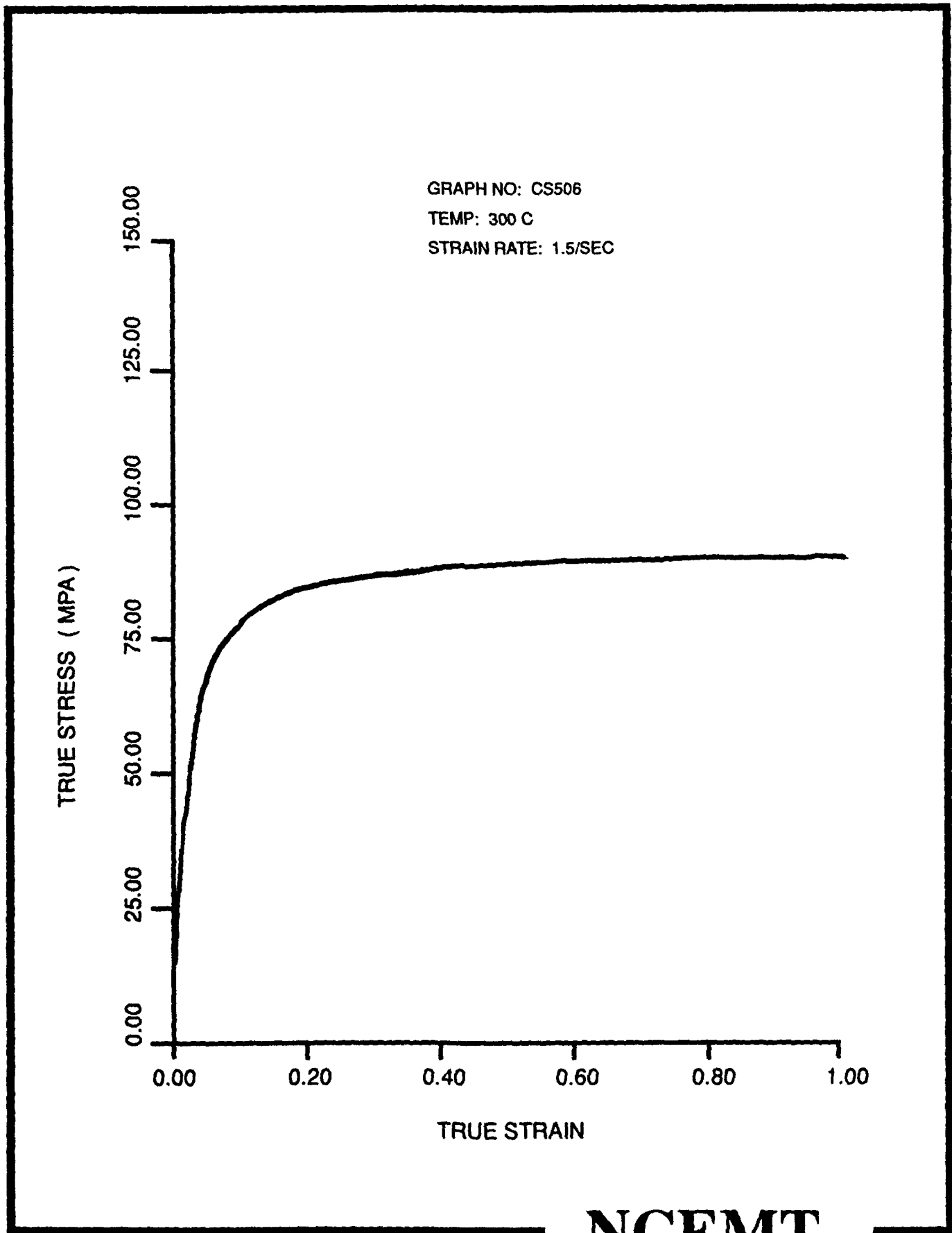


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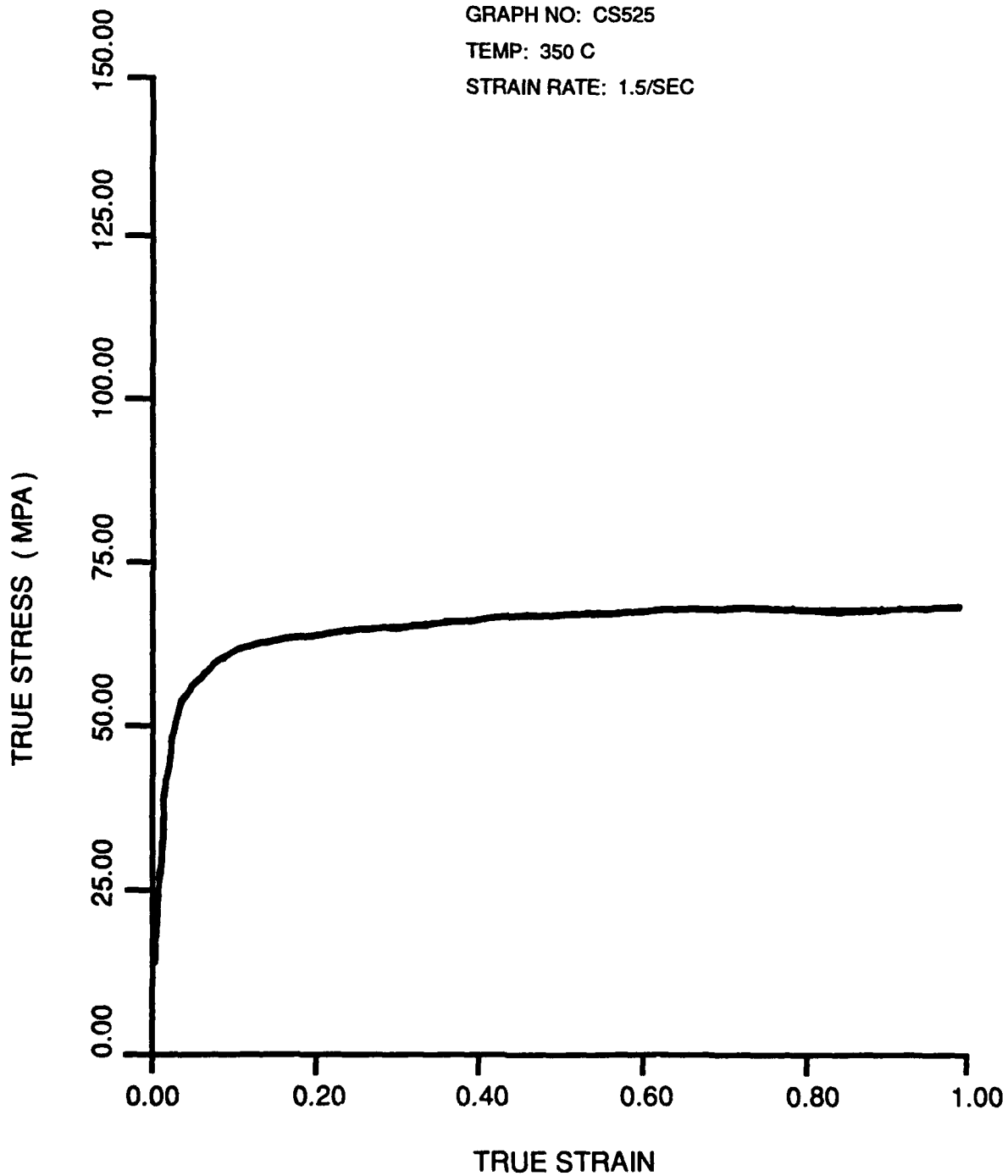
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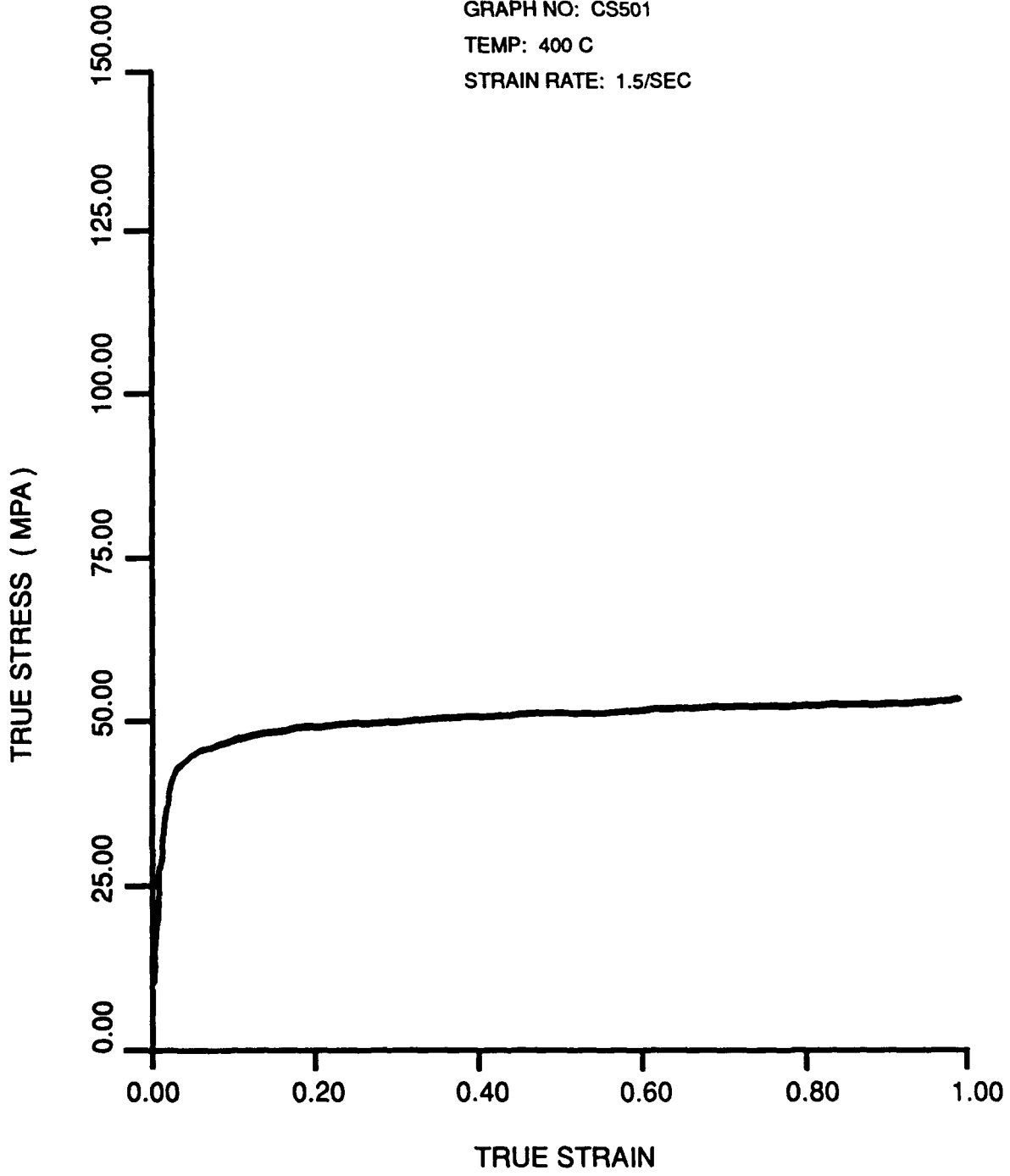


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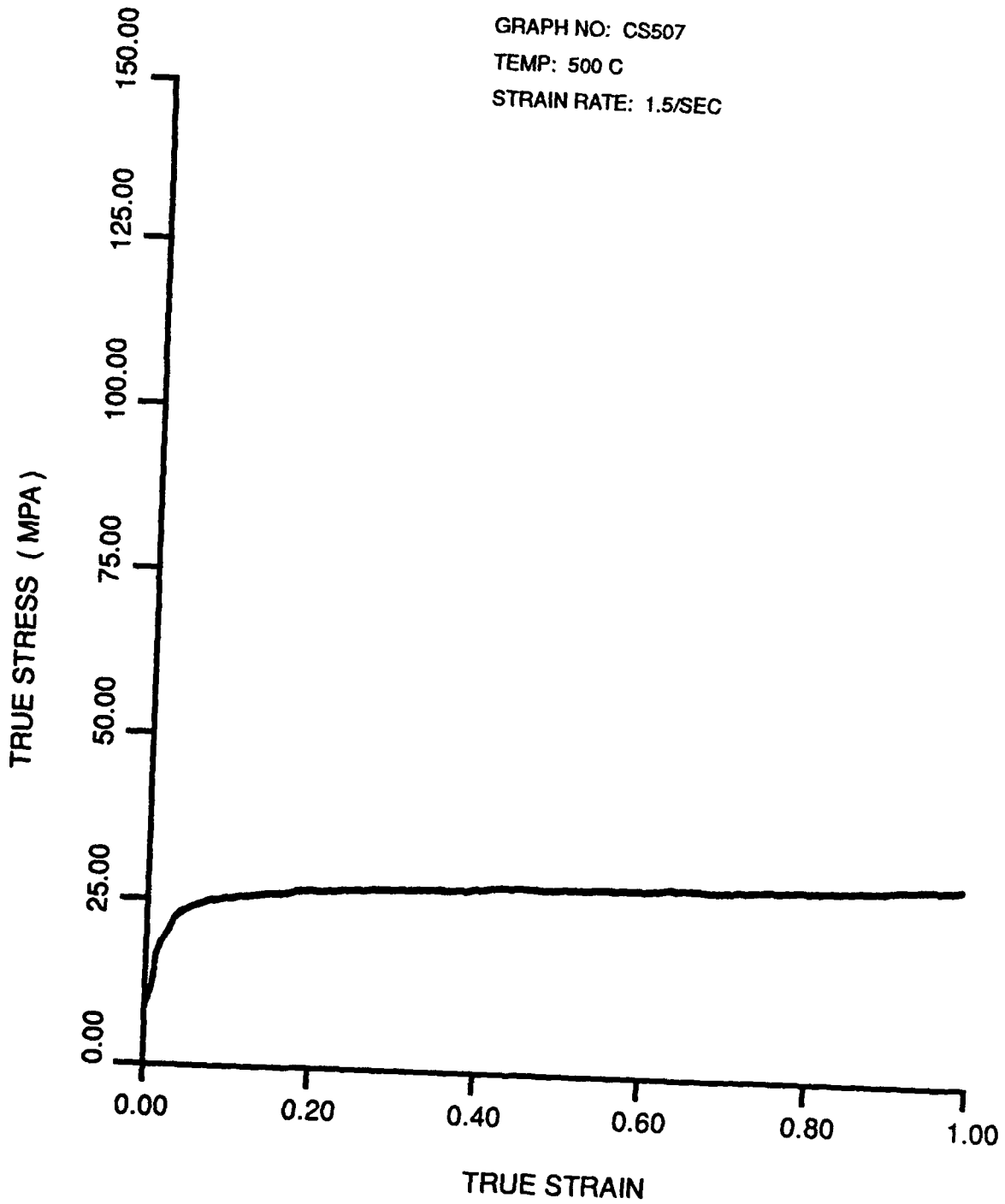
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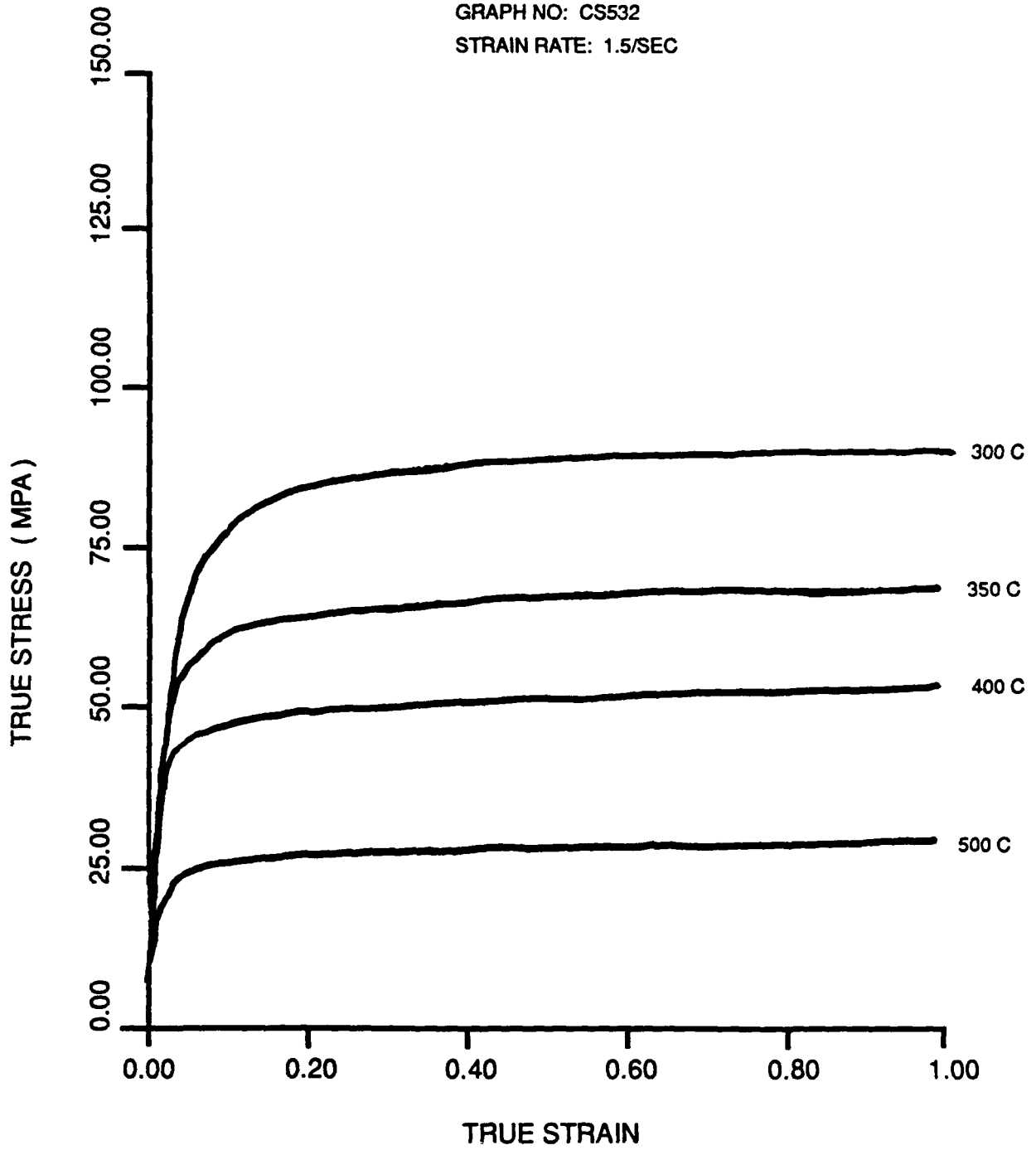
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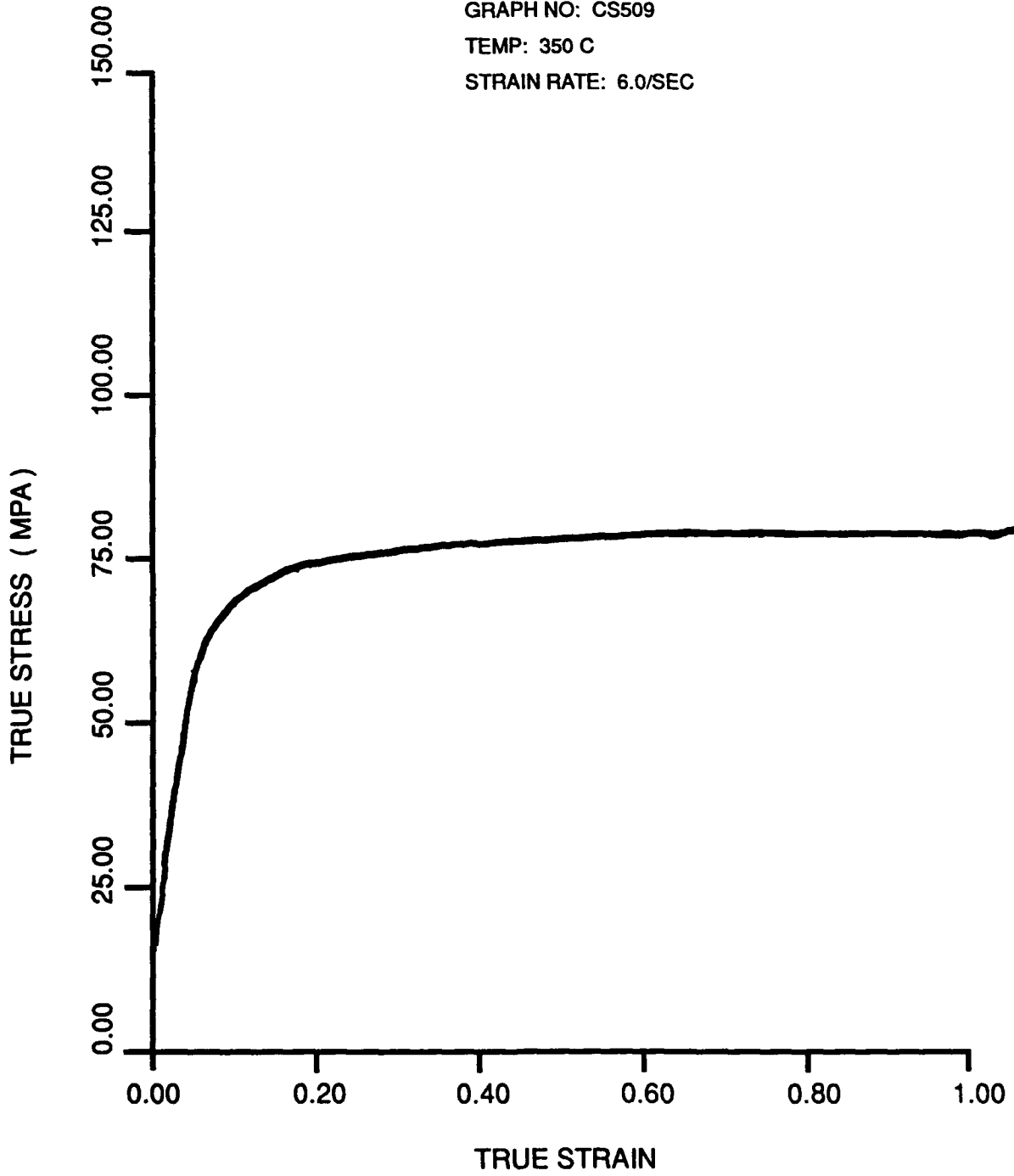
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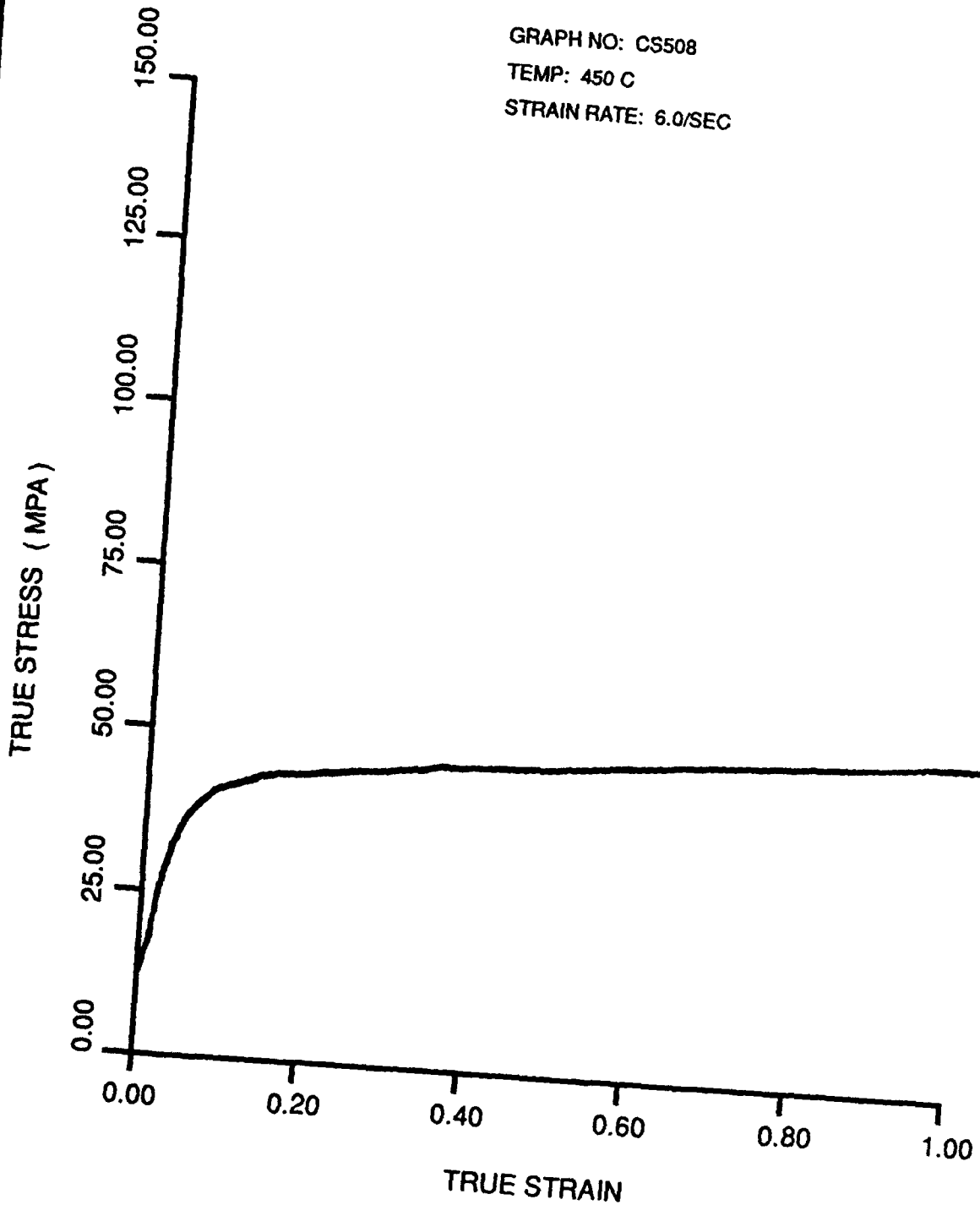
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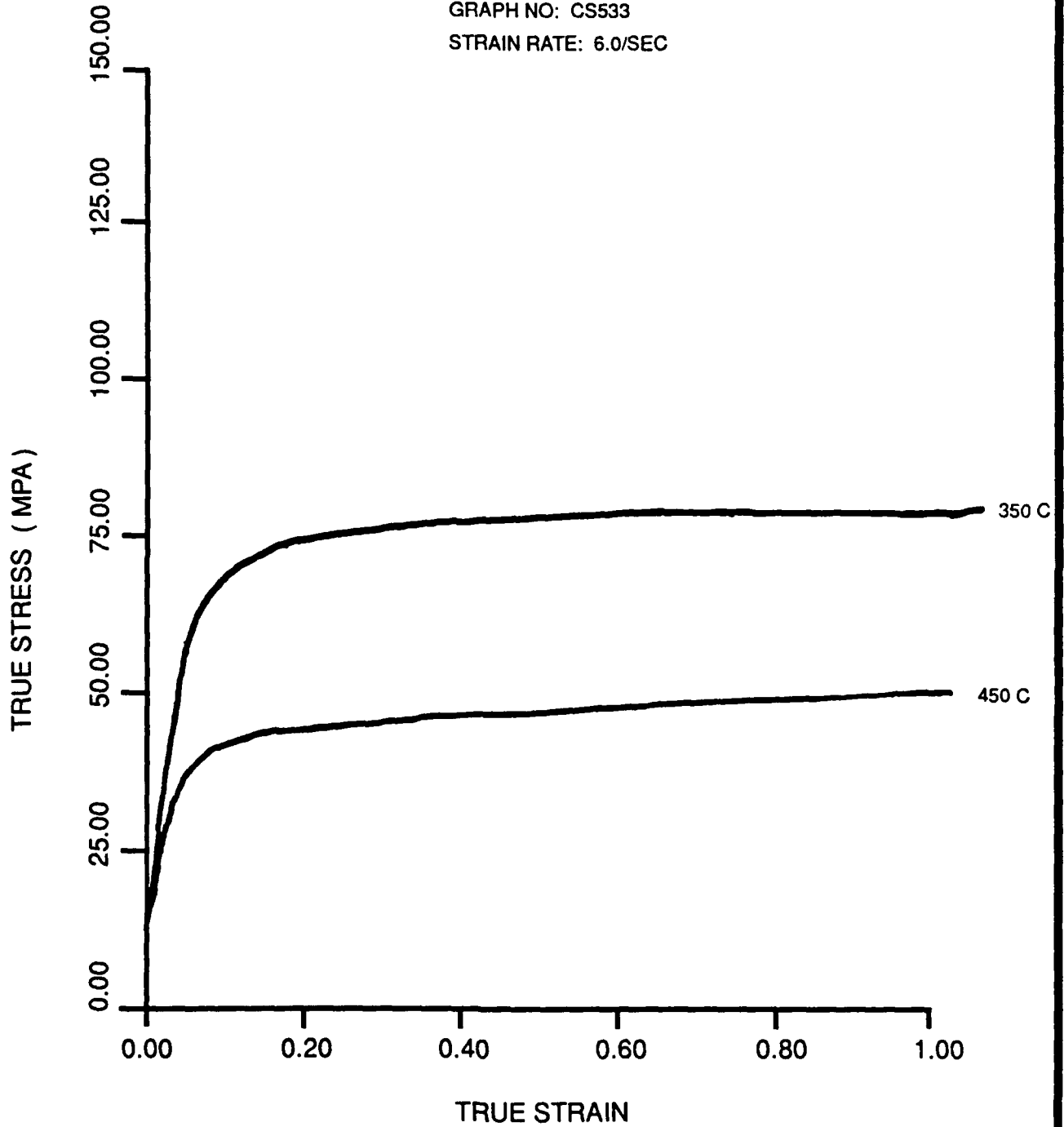
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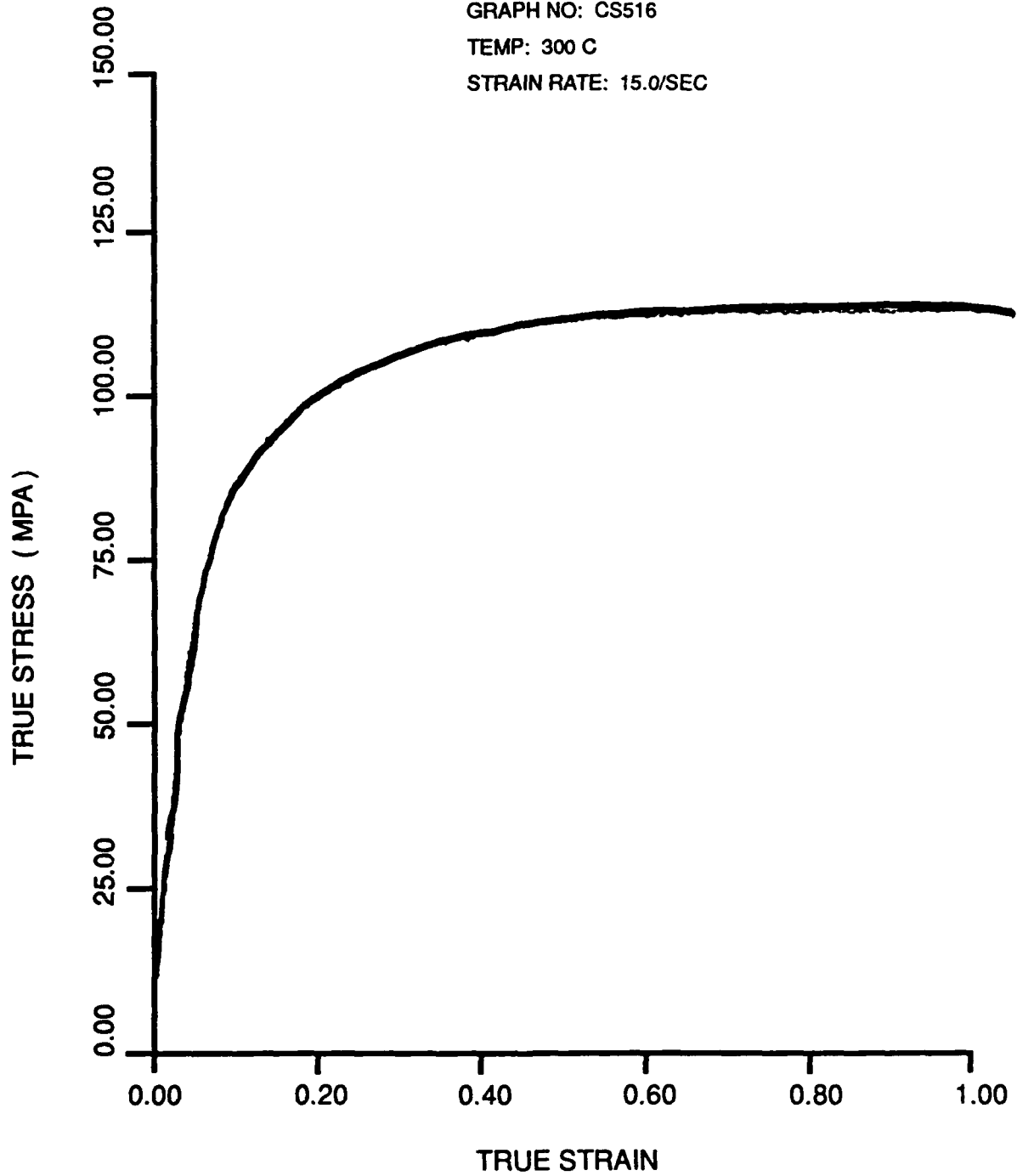
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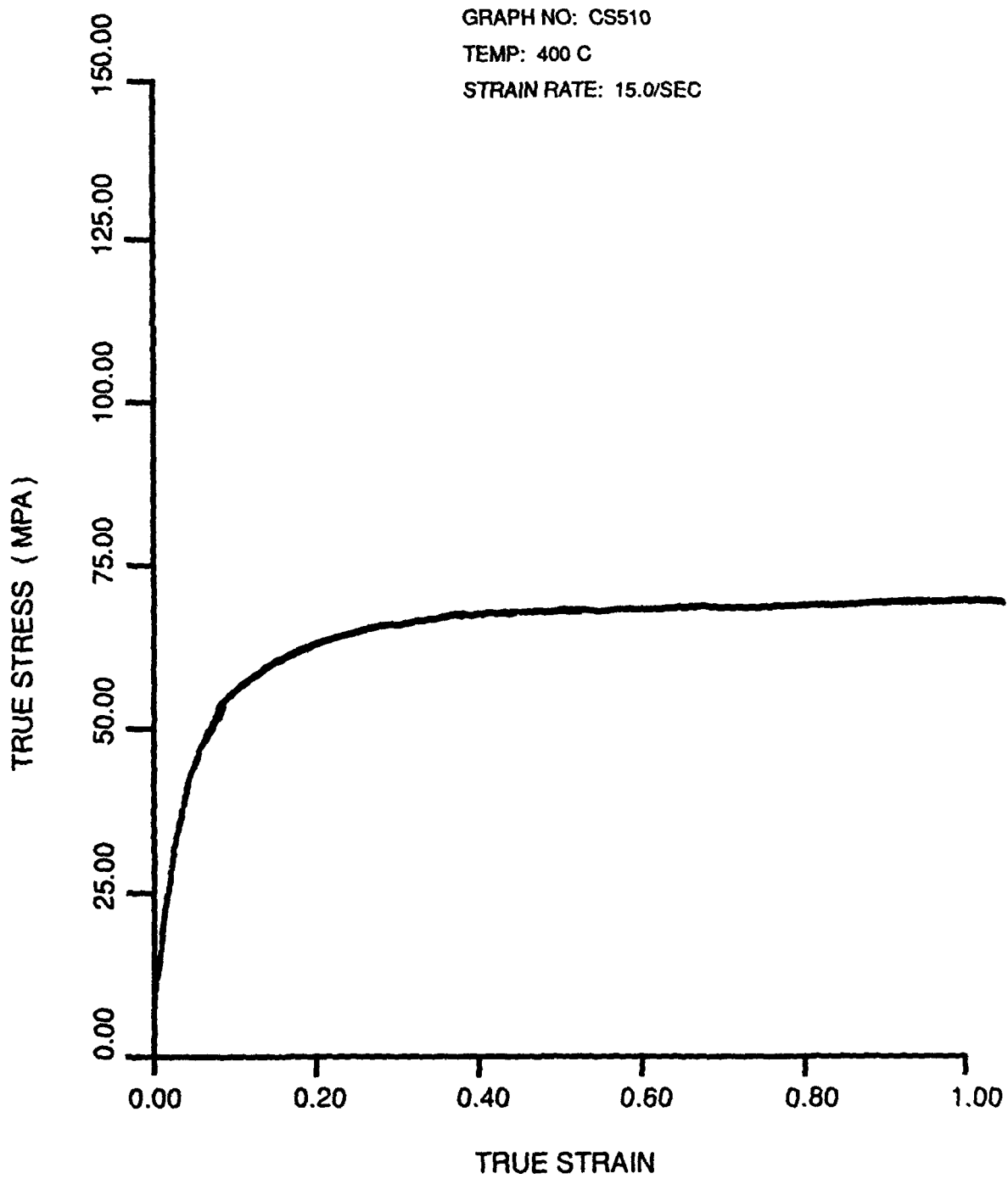


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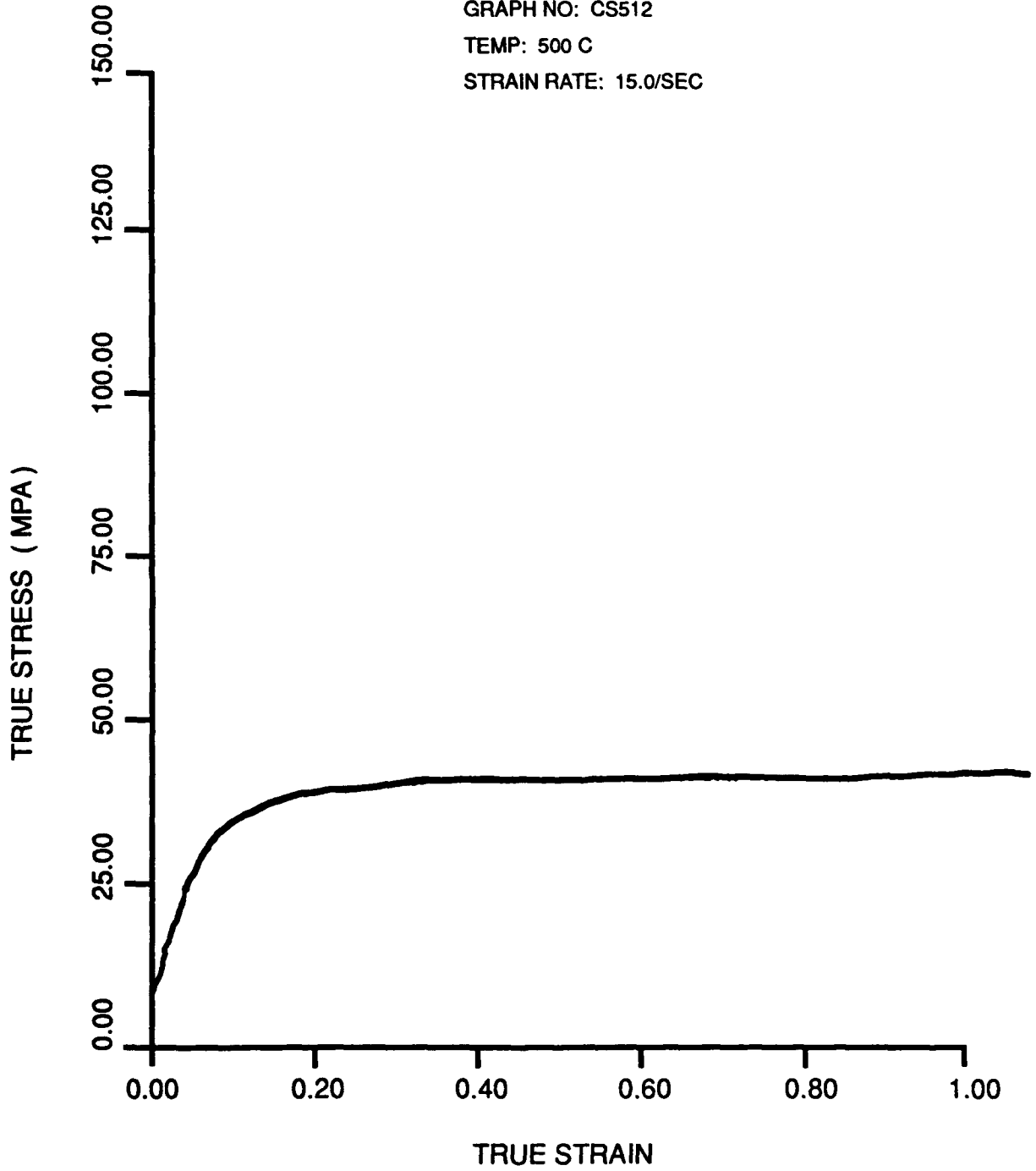


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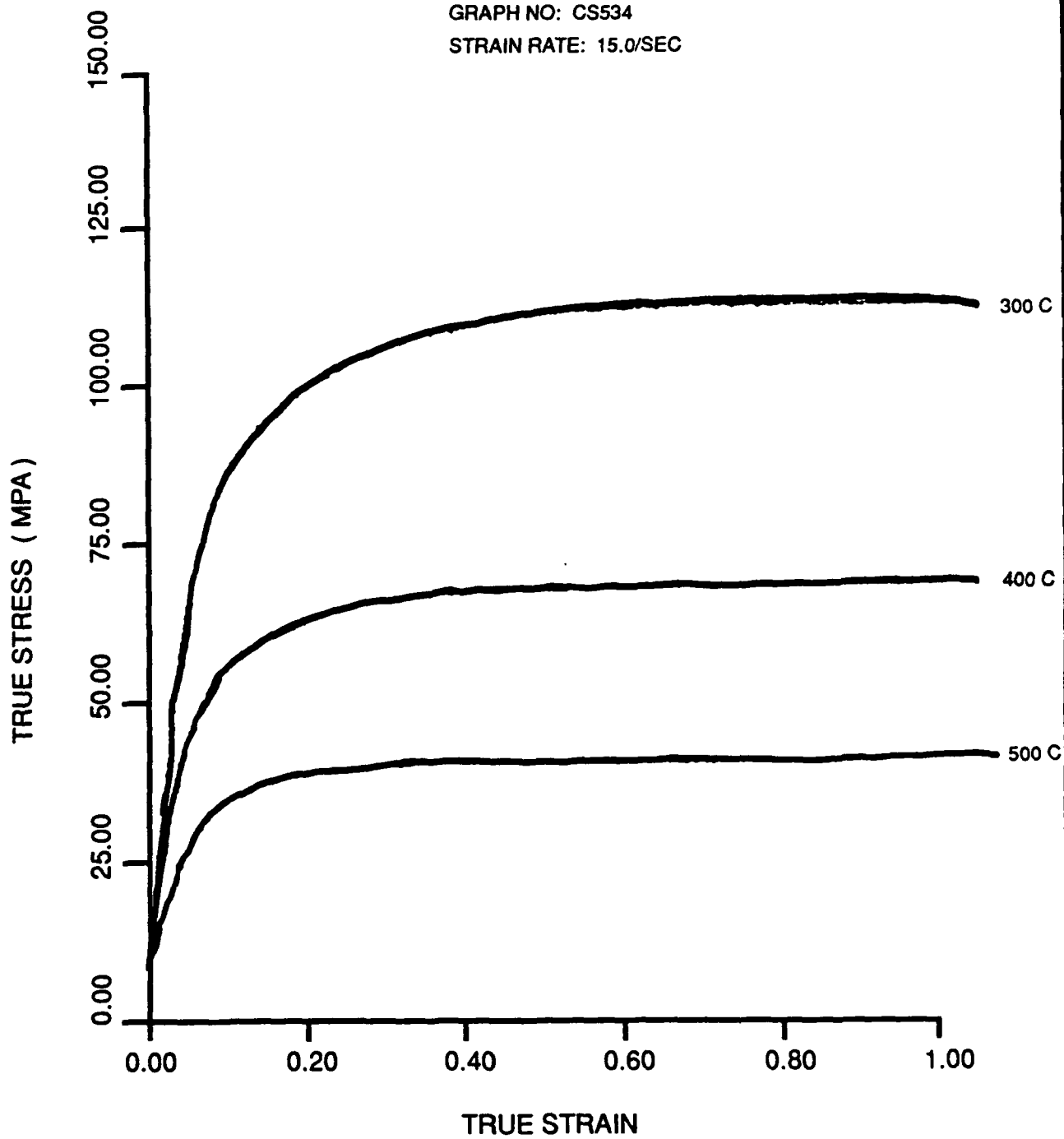
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NCEMT

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STRAIN RATE: 15.0/SEC



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