



MATERIAL REPORT

REPORT NUMBER: KB4386
DATE: 05/01/84

TITLE: Evaluation of Parker Compound S0355-75 to AMS 7267 Specifications

PURPOSE: To determine if S0355-75 meets the callout.

CONCLUSION: Compound S0355-75 meets the requirements.

Recommended temperature limits: -60⁰F to 450⁰F

Recommended For

Dry heat

Some petroleum oils

Moderate water resistance

Fire resistant hydraulic fluids (HFD-R and HFD-S)

Ozone, aging, and weather resistance

Low temperature

Not Recommended For

Ketones

Acids

Silicone oils

Auto and aircraft brake fluid



Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

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	<u>AMS 7267</u> <u>Pass / Fail Limits</u>	<u>S0355-75</u> <u>Platen Results</u>
<u>Basic Physical Properties</u>		
Hardness	75 +/- 5	70
Tensile Strength, psi min	650	932
Elongation, % min	125	179
Corrosion	none	none
Specific Gravity, max. variation	+/- 0.05	1.32
<u>Dry Heat Resistance, ASTM D513,</u> <u>70 HRS @ 482^oF</u>		
Hardness Change, pts	-5 to +10	+8
Tensile Change, % max	-30	-4.4
Elongation Change, % max	-45	-21.8
Bend (Flat)	No cracking or checking	None
<u>Compression Set, 22 HRS @ 437^oF</u>		
% of Original Deflection, max		
Ring cross section diameter		
0.066 to 0.110", incl.	70	--
Over 0.110"	60	29.4
<u>Fluid Immersion, ASTM D471 ASTM #1 Oil,</u> <u>70 HRS @ 347^oF</u>		
Hardness Change, pts	-10 to +5	-5
Tensile Change, % max	-30	+9.8
Elongation Change, % max	-30	-10.6
Volume Change, %	0 to +15	+9.7
<u>Polymer Reversion, 6 HRS @ 482^oF</u>		
Hardness Change, max	-10	-8
<u>Low Temperature Resistance</u>		
TR-10, ^o F	-44	-52

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