



MATERIAL REPORT



REPORT NUMBER: KK1556
DATE: 02/09/83

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TITLE: Evaluation of Parker Compound S0469-40 to AMS 3301E Specifications

PURPOSE: To determine if S0469-40 meets the requirements.

CONCLUSION: Compound S0469-40 meets the requirements.

Recommended temperature limits: -75⁰F to 400⁰F

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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	AMS 3301 E <u>Pass / Fail Limits</u>	S0469-40 <u>2-214 O-Rings</u> <u>Results</u>
Basic Physical Properties		
Hardness	40 +/- 5	45
Tensile Strength, psi min	500	696
Elongation, % min	250	480
Modulus @ 100%, psi max	200	116
Tear Strength, Die B, ppi min	55	59
Specific Gravity	Report	1.13
Dry Heat Resistance, ASTM D573, 24 HRS @ 437^oF		
Hardness Change, pts	-5 to +10	-3
Tensile Change, % max	-15	-5.2
Elongation Change, % max	-20	-11.9
Bend (Flat)	No cracking or checking	Pass
Compression Set, ASTM D395 Method B, 22 HRS @ 347^oF		
% of Original Deflection, max	72	21.2
Fluid Immersion, ASTM D471 ASTM #1 Oil, 70 H @ 347^oF		
Hardness Change, pts	-20 to +5	-6
Tensile Change, % max	-60	+13.8
Elongation Change, % max	-30	+6.9
Volume Change, %	0 to +20	+5.5
Decomposition	None	None
Surface Tackiness	None	None
Low Temp Brittleness D2137, Method A 10 MIN @ -85^oF		
	Pass	Pass

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