



MATERIAL REPORT

REPORT NUMBER: KK1556
DATE: 02/09/83

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

Report Number: KK2095

	AMS 3301 E <u>Pass / Fail Limits</u>	S0469-40 <u>2-214 O-Rings</u> <u>Results</u>
<u>Basic Physical Properties</u>		
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
<u>Dry Heat Resistance, ASTM D573,</u> <u>24 HRS @ 437^oF</u>		
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
<u>Compression Set, ASTM D395 Method B,</u> <u>22 HRS @ 347^oF</u>		
% of Original Deflection, max	72	21.2
<u>Fluid Immersion, ASTM D471 ASTM #1 Oil,</u> <u>70 H @ 347^oF</u>		
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
<u>Low Temp Brittleness D2137, Method A</u> <u>10 MIN @ -85^oF</u>		
	Pass	Pass

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351