



MATERIAL REPORT



REPORT NUMBER: KB4403
DATE: 06/01/84

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TITLE: Evaluation of Parker Compound S0899-50 to ZZ-R-765B, Class 1a and 1b, Grade 50 Specifications
PURPOSE: To determine if S0899-50 meets the callout.
CONCLUSION: Compound S0899-50 meets the requirements.

Recommended temperature limits: -103⁰F 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



REPORT DATA

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	ZZ-R-765B <u>Pass / Fail Limits</u>	S0899-50 O-Rings 2-222 <u>Results</u>
Basic Physical Properties		
Hardness	50 +/- 5	50
Tensile Strength, psi min	700	974
Elongation, %	225	414
Dry Heat Resistance, 70 HRS @ 437⁰F		
Hardness Change, pts	+/-15	55 (+5)
Tensile Change, % max	-30	825 (-15.3)
Elongation Change, % max	-50	338 (-18.4)
Compression Set (1a), 70 HRS @ 212⁰F		
% of Original Deflection, max	35	12.1
Compression Set (1b), 70 HRS @ 302⁰F		
% of Original Deflection, max	35	18.2
Fluid Immersion, ASTM #1 Oil, 70 H @ 212⁰F		
Hardness Change, pts	-10 to +5	45 (-5)
Tensile Change, % max	-30	792 (-18.7)
Elongation Change, % max	-15	402 (-2.9)
Volume Change, % max	+10	+7.1