



## MATERIAL REPORT

REPORT NUMBER: KB4403  
DATE: 06/01/84

**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: -103<sup>0</sup>F to 400<sup>0</sup>F

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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	<b>ZZ-R-765B</b> <u>Pass / Fail Limits</u>	<b>S0899-50</b> O-Rings 2-222 <u>Results</u>
<b>Basic Physical Properties</b>		
Hardness	50 +/- 5	50
Tensile Strength, psi min	700	974
Elongation, %	225	414
<b>Dry Heat Resistance,</b> <b>70 HRS @ 437<sup>0</sup>F</b>		
Hardness Change, pts	+/-15	55 (+5)
Tensile Change, % max	-30	825 (-15.3)
Elongation Change, % max	-50	338 (-18.4)
<b>Compression Set (1a),</b> <b>70 HRS @ 212<sup>0</sup>F</b>		
% of Original Deflection, max	35	12.1
<b>Compression Set (1b),</b> <b>70 HRS @ 302<sup>0</sup>F</b>		
% of Original Deflection, max	35	18.2
<b>Fluid Immersion, ASTM #1 Oil,</b> <b>70 H @ 212<sup>0</sup>F</b>		
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