



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: -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



Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

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

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