



MATERIAL REPORT

REPORT NUMBER: KB4407
DATE: 06/84

TITLE: General evaluation of S0317-60

Recommended temperature limits: -103⁰F to 450⁰F

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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	S0317-60 <u>2-222 O-Rings</u> <u>Results</u>
<u>Basic Physical Properties</u>	
Hardness	60
Tensile Strength, psi	726
Elongation, %	217
<u>ASTM D573 Heat Aging, 70 H @ 437°F</u>	
Hardness Change, pts	+5
Tensile Change, %	-4.5
Elongation Change, %	-17.9
<u>Compression Set,</u> <u>70 HRS @ 302°F</u>	
% of Original Deflection	8.8
<u>Fluid Immersion, ASTM #1 Oil,</u> <u>70 HRS @ 302°F</u>	
Hardness Change, pts	0
Tensile Change, %	+4.5
Elongation Change, %	-6.0
Volume Change, %	+3.6
<u>Water Immersion,</u> <u>70 HRS @ 212°F</u>	
Volume Change, %	+1.4
<u>Low Temp Brittleness ASTM D746 -80°F</u>	Pass