



# MATERIAL REPORT



REPORT NUMBER: KB4407  
DATE: 06/84

[CONTACT US](#)

**TITLE:** General evaluation of S0317-60

Recommended temperature limits: -103<sup>0</sup>F to 450<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**

Report Number: KB4407

|   | <b>S0317-60</b><br><u>2-222 O-Rings</u><br><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><br><u>70 HRS @ 302°F</u>              |   |
| % of Original Deflection                                      | 8.8   |
| <u>Fluid Immersion, ASTM #1 Oil,</u><br><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><br><u>70 HRS @ 212°F</u>              |   |
| Volume Change, %  | +1.4  |
| <u>Low Temp Brittleness ASTM D746 -80°F</u>                   | Pass  |