



## MATERIAL REPORT

REPORT NUMBER: KK2206  
DATE: 06/19/96

**TITLE:** Evaluation of Parker Compound S1224-70 to ASTM D2000  
7GE705 A19 B37 EA14 EO16 E036 F19 G11  
**PURPOSE:** To determine if S1224-70 meets the callout.  
**CONCLUSION:** Compound S1224-70 meets the ASTM D2000 callout.

Recommended temperature limits: -65<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



**Compound Data Sheet**  
Parker O-Ring Division United States

**REPORT DATA**

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	ASTM D2000 <b>7GE705 A19 B37</b> <b>EA14 EO16 E036 F19</b> <b>G11</b> Pass / Fail Limits	<b>S1224-70</b> Slab Results
<u>Basic Physical Properties</u>		
Hardness	70 +/- 5	69
Tensile Strength, psi min	725	1204
Elongation, % min	150	265
<u>ASTM D573 Heat Aging,</u> <u>70 HRS @ 225°C</u>		
Hardness Change, pts max	+10	+6
Tensile Change, % max	-25	-14
Elongation Change, % max	-30	-26
<u>Compression Set ASTM D395,</u> <u>22 HRS @ 347°F, plies</u> % of Original Deflection, max	30	23
<u>Fluid Immersion, ASTM #1 Oil,</u> <u>70 HRS @ 150°C</u>		
Hardness Change, pts	0 to -15	-9
Tensile Change, % max	-20	+10
Elongation Change, % max	-20	+3
Volume Change, %	0 to +15	+4
<u>Fluid Immersion, ASTM #3 Oil,</u> <u>70 HRS @ 302°F</u>		
Hardness Change, pts max	-40	-19
Volume Change, % max	+60	+35
<u>Fluid Immersion ASTM D471 Water</u> <u>70 HRS. @ 212°F</u>		
Hardness Change, pts. max.	+/-5	0
Volume Change, % max.	+/-5	0
<u>Tear Resistance, ASTM D624, Die B</u> kN/M, min	9	14
<u>Low Temperature Brittleness Test</u> <u>ASTM D2137, Method A</u> 3 min. @ -55°C	Pass	Pass

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