



# MATERIAL REPORT

REPORT NUMBER: KK0859

DATE: 04/28/82

**TITLE:** Evaluation of Parker Internally Lubricated Compound N0818-70.

**PURPOSE:** To compare N0818-70 to the requirements of ASTM D2000/J200 callout 2BG 720 B34, E14, E34, E51, L14, Z1.

**CONCLUSION:** Parker Compound N0818-70 meets or exceeds all the requirements of the subject specification.

**Recommended Temperature Range:** -30 to 250F

**Recommended for:** petroleum oils, water (up to 212F),  
Salt & Alkali solutions, weak acids

**Not Recommended for:** aromatic fuels, strong acids,  
glycols, ozone, polar solvents

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# REPORT DATA

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2BG720B34E14E34E51L14Z1  
COMPOUND N0818-70

<u>ORIGINAL PHYSICALS</u>	<u>ASTM</u>	<u>TEST</u>
Durometer Hardness (pts.) ±5	70	70
Tensile, min. (psi)	2000	2289
Elongation, min. (%)	250	350
<u>HEAT RESISTANCE (D573)</u> (70 Hrs. @ 212°F)		
Hardness Change, (pts.)	±15	+ 2
Tensile Change, %	±30	+ 6
Elongation Change, %, max.	- 50	- 22
<u>B34 COMPRESSION SET (D395)</u> (22 Hrs. @ 212°F) max. %		
	25	20.6
<u>E14 FLUID RESISTANCE, #1 OIL (D471)</u> (70 Hrs. @ 212°F)		
Hardness Change, max. pts.	-5 +10	- 3
Tensile Change, max. %	-25	+17
Elongation Change, max. %	-45	- 3
Volume Change, %	-10 + 5	- 1.6
<u>E34 FLUID RESISTANCE, #3 OIL (D471)</u> (70 Hrs. @ 212°F)		
Hardness Change, max. pts.	-10 +5	- 3
Tensile Change, max. %	-45	- 2
Elongation Change, max. %	-45	+ 2
Volume Change, %	0 +25	10.6
<u>E51 FLUID RESISTANCE, FUEL A (D471)</u> (70 Hrs. @ 73°F)		
Hardness Change, pts.	±10	- 3
Tensile Change, max. %	-25	+ 3
Elongation Change, max. %	-25	- 4
Volume Change, %	-5 +10	- 0.9
<u>L14 WATER RESISTANCE (D471)</u> (70 Hrs. @ 212°F)		
Hardness Change, pts.	±10	0
Volume Change, %	±15	- 1.0

## Z1 SPECIAL REQUIREMENT

Contains internal lubricant as part of compound formulation.