



# MATERIAL REPORT

REPORT NUMBER: KT2050

DATE: 2/21/90

**TITLE:** Evaluation of Parker Compound N0552-90 to the requirements of ASTM D2000 3CH915 B34 E016 E036.

**PURPOSE:** To provide conformance data.

**CONCLUSION:** Parker Compound N0552-90 meets the requirements of the above 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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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>3CH915 B34 EO16 EO36</u>	<u>N0552-90</u>
Hardness, Shore A, pts.	85 - 95	89
Tensile Strength, psi.	1450	2343
Elongation, %	100	160
 <u>COMPRESSION SET,</u> <u>22 HRS @ 212°F</u>		
% Deflection, max	25	12.7
 <u>FLUID IMMERSION, ASTM #1</u> <u>70 HRS. @ 302°F</u>		
Hardness Change, pts	0 to + 10	+ 1
Tensile Change, %	- 20	- 14.6
Elongation Change, %	- 40	- 36.9
Volume Change, %	- 15 to + 5	- 2.8
 <u>FLUID IMMERSION, ASTM #3,</u> <u>70 HRS. @ 302°F</u>		
Hardness Change, pts	± 10	- 8
Tensile Change, %	- 35	- 19.8
Elongation Change	- 35	- 32.5
Volume Change	0 to + 25	+ 12.2