



# MATERIAL REPORT

DATE: 02/29/00

**TITLE:** Evaluation of Parker's Compound NF162-65

**CONCLUSION:** Compound NF162-65 meets or exceeds all requirements of subject specification.

**Recommended Temperature Range:** -25 to 250F

**Recommended for:** petroleum oils, water (up to 180F),  
Salt & Alkali solutions, weak acids

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

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## REPORT DATA

<u>Original Physical Properties, ASTM D1414, D2240</u>	<u>NF162-65 Test Results</u>
Hardness, Shore A, pts.	64
Tensile Strength, psi	1510
Ultimate Elongation, %	306
Modulus @ 100%, psi	502
<b>Compression Set, ASTM D395 Method B (70 hrs. @ 257°F)</b>	
Percent of Original Deflection	45
<b>Fluid Immersion, ASTM D471 Fuel B, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-6
Tensile Change, %	-37
Elongation Change, %	-12
Volume Change, %	+10
<b>Fluid Immersion, ASTM D471 Fuel C, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-7
Tensile Change, %	-43
Elongation Change, %	-22
Volume Change, %	+16
<b>Fluid Immersion, ASTM D471 90% Fuel C / 10% Ethanol, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-10
Tensile Change, %	-51
Elongation Change, %	-19
Volume Change, %	+21
<b>Fluid Immersion, ASTM D471 85% Fuel C / 15% Ethanol, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-9
Tensile Change, %	-53
Elongation Change, %	-28
Volume Change, %	+30
<b>Fluid Immersion, ASTM D471 90% Fuel C / 10% Methanol, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-9
Tensile Change, %	-55
Elongation Change, %	-27
Volume Change, %	+32
<b>Fluid Immersion, ASTM D471 Test 85% Fuel C / 15% Methanol, (70 hrs. @ RT) Results</b>	
Hardness Change, pts.	-12
Tensile Change, %	-38
Elongation Change, %	-35
Volume Change, %	+34