



MATERIAL REPORT

DATE: 04/24/01

TITLE: Evaluation of Parker's Compound NW163-75

CONCLUSION: Compound NW163-75 meets or exceeds all requirements of subject specification.

Recommended Temperature Range: -30 to 225F

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

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

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40512
(859) 269-2351

REPORT DATA

<u>Original Physical Properties, ASTM D1414, D2240</u>	<u>NW163-75 Test Results</u>
Hardness, Shore A, pts.	69
Tensile Strength, psi	2610
Ultimate Elongation, %	385
Compression Set, ASTM D395 Method B (22 hrs. @ 212°F)	
Percent of Original Deflection (½" buttons)	15
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 212°F)	
Hardness Change, pts.	+3
Tensile Change, %	-5
Elongation Change, %	-15
Volume Change, %	+7
Fluid Immersion, ASTM D471 Fuel A, (70 hrs. @ 73°F)	
Hardness Change, pts.	-5
Tensile Change, %	-4
Elongation Change, %	-2
Volume Change, %	0
Fluid Immersion, ASTM D471 Fuel B, (70 hrs. @ 73°F)	
Hardness Change, pts.	-11
Tensile Change, %	-20
Elongation Change, %	-17
Volume Change, %	+13
Low Temperature Brittleness, ASTM D2137	
Nonbrittle after 3 min. @ -40°F	Passed