



MATERIAL REPORT

REPORT NUMBER: KK1286
DATE: 6/29/81

TITLE: Evaluation of Parker Compound C0944-70 to ASTM D 2000
3BC 715 A14 B14 EO14 EO34 F16

PURPOSE: To show compliance of all phases of specification.

CONCLUSION: Parker Compound C0944-70 meets or exceeds all phases of
the specification.

Recommended temperature limits: -35°F to 250°F

Recommended For

Carbon Dioxide

Ammonia

Refrigerants

Silicone oil and grease

Water and water solvents at low temperatures

Not Recommended For

Aromatic hydrocarbons, e.g, benzene

Chlorinated hydrocarbons

Polar solvents, e.g. ketones, esters, ethers, acetones



REPORT DATA

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	<u>ASTM D2000 3BC 715</u>	<u>C0944-70</u>
	<u>A14 B14 EO14 EO34,</u>	<u>2-216 Test Results</u>
	<u>F16 Specification</u>	
<u>Basic Physical Properties</u>		
Hardness	70 ± 5	74
Tensile Strength, psi.	1500	1838
Elongation, %	250	269
<u>B14, Compression Set, 70 H @ 212°F</u>		
% Max. Deflection	35	20
<u>A14, Heat Aging, 70 H @ 212°F</u>		
Hardness Change, pts	+15	+5
Tensile Change, %	-15	-4.8
Elongation Change, %	-40	-22.7
<u>E014, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Hardness Change, pts.	±10	-3
Tensile Change, %, max	-30	-11.6
Elongation Change, % max.	-30	-19.7
Volume Change, % max.	-10 to +15	+6.4
<u>EO34, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Tensile Change, %, max	-60	-40.9
Elongation Change, % max.	-50	-22.7
Volume Change, % max.	+100	+62.9
<u>F16, Low Temperature Brittleness</u>		
3 min. @ -31 °F	Pass	Pass