



MATERIAL REPORT

REPORT NUMBER: KK0972A

DATE: 04/01/86

TITLE: Evaluation of Parker Compound C0518-60 to ASTM D 2000
6BC 620 A14 EO14 EO34 F17 specifications.

PURPOSE: To show compliance of all phases of specification.

CONCLUSION: Parker Compound C0518-60 meets or exceeds the
specifications listed in the ASTM D2000 called out above.

Recommended temperature limits: -35°F to 225°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 6BC 620</u> <u>A14 EO14 EO34 F17</u> <u>Specification</u>	<u>C0518-60 Test</u> <u>Results</u>
<u>Basic Physical Properties</u>		
Hardness	60 ± 5	58
Tensile Strength, psi.	2000	2219
Elongation, %	350	350
<u>Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Volume Change, % max.	+120	+66.8
<u>Compression Set, 70 H @ 212°F</u>		
% Max. Deflection	80	20.3
<u>A14, Heat Aging, 70 H @ 212°F</u>		
Hardness Change, pts	+15	+7
Tensile Change, %	-15	+6.2
Elongation Change, %	-40	-7.9
<u>E014, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Hardness Change, pts.	± 10	-3
Tensile Change, %, max	-30	+2.3
Elongation Change, % max.	-30	-9.5
Volume Change, % max.	-10 to +15	+4.7
<u>EO34, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Tensile Change, %, max	-60	-29.4
Elongation Change, % max.	-50	-24.8
Volume Change, % max.	+100	+66.8
<u>F17, Low Temperature Brittleness</u>		
3 min. @ -40°F	Pass	Pass