



# MATERIAL REPORT

REPORT NUMBER: KK1793

**TITLE:** Evaluation of Parker Compound C0557-70 to ASTM D 2000 3BC 715 A14 B14 EO14 EO34 specifications.

**PURPOSE:** To show compliance of all phases of specification.

**CONCLUSION:** Parker Compound meets or exceeds the specifications of the ASTM D2000 call out above.

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>C0557-70 Test</u>
	<u>A14</u>	<u>B14 EO14 EO34</u>	<u>Results</u>
	<u>Specification</u>		
<u>Basic Physical Properties</u>			
Hardness	70 ± 5		70
Tensile Strength, psi.	1500		1848
Elongation, %	250		274
<u>B14, Compression Set, 70 H @ 212°F</u>			
% Max. Deflection	35		17.2
<u>A14, Heat Aging, 70 H @ 212°F</u>			
Hardness Change, pts	+15		+4
Tensile Change, %	-15		+5.4
Elongation Change, %	-40		-8.8
<u>E014, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>			
Hardness Change, pts.	10		-10
Tensile Change, %, max	-30		-3
Elongation Change, % max.	-30		-9
Volume Change, % max.	-10 to +15		+8.7
<u>EO34, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>			
Tensile Change, %, max	-50		-39.3
Elongation Change, % max.	-40		+4.4
Volume Change, % max.	+100		+66.4