



MATERIAL REPORT



REPORT NUMBER: KK1793

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TITLE: Evaluation of Parker Compound C0873-70 to ASTM D 2000 3BC 715 A14 B14 EO14 EO34 specifications.

PURPOSE: To show compliance of all phases of specification.

CONCLUSION: Parker Compound C0873-70 meets or exceeds all phases of the specification.

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 3BC 715</u>		<u>C0873-70 Test</u>
	<u>A14</u>	<u>B14 EO14 EO34</u>	<u>Results</u>
	<u>Specification</u>		
<u>Basic Physical Properties</u>			
Hardness	70 ± 5		72
Tensile Strength, psi.	1500		1832
Elongation, %	250		293
<u>B14, Compression Set, 22 H @ 212°F</u>			
% Max. Deflection	35		17.7
<u>A14, Heat Aging, 70 H @ 212°F</u>			
Hardness Change, pts	+15		+6
Tensile Change, %	-15		-14.4
Elongation Change, %	-40		-23.9
<u>E014, Fluid Immersion, ASTM #1 Oil, 70 H @ 212 °F</u>			
Hardness Change, pts.	±10		-3
Tensile Change, %, max	-30		+2
Elongation Change, % max.	-30		-22
Volume Change, % max.	-10 to +15		+8.5
<u>EO34, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>			
Tensile Change, %, max	-60		-36.9
Elongation Change, % max.	-50		-27.3
Volume Change, % max.	+100		+65.6