



MATERIAL REPORT



[CONTACT US](#)

TITLE: Evaluation of Parker Compound E1100-50 when immersed in water glycol solution.

PURPOSE: To obtain general data for E1100-50.

Recommended temperature limits: -70°F to 250 °F

Recommended For

Hot water and steam
Glycol based brake fluid
Many organic and inorganic acids
Cleaning agents, soda and potassium alkalis
Phosphate –ester based hydraulic fluids
Silicone oil and grease
Polar solvents
Ozone, Aging and weather resistance

Not Recommended For

Mineral oil products



REPORT DATA

E1100-50 2-214 o-rings

Test Results

Basic Physical Properties

Hardness, Shore A, pts.	55
Tensile Strength, psi	1749
Elongation, %	550
Modulus @ 100%	165
Specific Gravity	1.06

Dry Heat Resistance, 70 H @ 257 °F

Hardness Change, pts.	+8
Tensile Change, %	+18
Elongation Change, %	-14.5

Fluid Immersion, ASTM #1 Oil, 70 H @ 302 °F

Hardness Change, pts.	-15
Tensile Change, %, max	-75
Elongation Change, % max.	-45
Volume Change, % max.	+126

Fluid Immersion, ASTM #3 Oil, 70 H @ 257 °F

Hardness Change, pts.	-15
Tensile Change, %, max	-85
Elongation Change, % max.	-59
Volume Change, % max.	+185

Fluid Age, 50/50 Water Glycol, 70 H @ 212 °F

Hardness Change, pts.	-2
Tensile Change, %, max	-9
Elongation Change, % max.	-17
Volume Change, % max.	-1.3

Compression Set, 70 H @ 212 °F

18

Low Temperature Resistance

TR-10, °F	-45°F
-----------	-------