



MATERIAL REPORT

Report Number: KK1499
Date: 10/9/1984

TITLE: Evaluation of Parker Compound E0962-90 in water, high temperature steam, and a 10% oil and steam combination.

PURPOSE: To determine property changes in water, high temperature steam and oil at temperatures up to 600°F for 168 hours.

CONCLUSION: Parker Compound E0962-90 maintains excellent physical properties even after a 10% Mil-H-5606D oil and steam age for 168 hours at 550°F.

Recommended temperature limits: -60°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

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E0962-90 2-214 o-rings
Basic Physical Properties

Hardness, Shore A, pts.	87
Tensile Strength, psi	2150
Elongation, %	96
Modulus @ 100%, psi	----

Fluid Immersion, Water, 168H @ 212°F

Hardness Change, pts.	-1
Tensile Change, %	-3
Elongation Change, %	0
Modulus @ 100%, psi.	----
Volume Change, %	+1.2
Compression Set, %	26.5

Aging in Steam, 168H @ 550°F

Hardness Change, pts.	-5
Tensile Change, %	-19
Elongation Change, %	+6
Modulus @ 100%, psi.	1710
Volume Change, %	+2.1
Compression Set, %	80.9

Aging in Steam, 168H @ 600°F

Hardness Change, pts.	-22
Tensile Change, %	-76
Elongation Change, %	+14
Modulus @ 100%, psi.	466
Volume Change, %	+4.0
Compression Set, %	85.7

Aging in 10% Mil-H-5606D +Steam, 168H @ 550°F

Hardness Change, pts.	
Tensile Change, %	-15
Elongation Change, %	-52
Modulus @ 100%, psi.	+2
Volume Change, %	---
Compression Set, %	+16.6
	76.5