



## MATERIAL REPORT

REPORT NUMBER: KK2213

DATE: 2/20/98

**TITLE:** Evaluation of Parker Compound E1244-70.

**PURPOSE:** To provide test data in various environments.

**CONCLUSION:** The NSF 61 listed Parker Compound E1244-70 exhibits good compression set resistance.

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

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	2-129 O-Ring <u>Results</u>	2-211 O-Ring <u>Results</u>
<u>Original Physical Properties</u>		
Hardness, Shore A, pts	65	70
Tensile Strength, psi	2035	1725
Ultimate Elongation, %	278	252
Modulus @ 100% Elongation, psi	351	
Specific gravity	1.06	
<u>Heat Aging</u> 70 h @ 257°F		
Hardness Change, pts	+4	
Tensile Strength Change, %	+22	
Ultimate Elongation Change, %	+12	
<u>Heat Aging</u> 70 h @ 100° ASTM D573		
Hardness Change, pts		+2
Tensile Strength Change, % max		-7
Ultimate Elongation Change, % max		--
<u>Compression Set</u> (70 h @ 212°F)		
Permanent Compression Set, %	8	9
(70 h @ 257°F)		
Permanent Compression Set, %	15	
(70 h @ 302°F)		
Permanent Compression Set, %	13	
<u>Fluid Resistance</u> Distilled Water (168 h @ 100°C) ASTM D471		
Hardness Change, pts		+2
Volume Change, %		+0.36