



MATERIAL REPORT

DATE: October 2000

TITLE: General evaluation of Parker Compound FF200-75.

PURPOSE: To obtain general data for Parker Compound FF200-75.

CONCLUSION: Parker Compound FF200-75 is an ultra high temperature perfluorinated elastomer.

Recommended temperature limits: 5 to 608 °F

Recommended For

Aliphatic and aromatic hydrocarbons

Chlorinated hydrocarbons

Polar solvents (acetone, methylethylketone, dioxane)

Inorganic and organic acids

Water and steam

High vacuum with minimal loss in weight

Petroleum oil

Wet/dry chlorine

Not Recommended For

Fluorinated refrigerants (R11, 12, 13, 113, 114)

Uranium hexafluoride

Molten Metals

Gaseous and alkali metals



REPORT DATA

	<u>FF200-75 2-214 O-Rings</u>
<u>Original Physical Properties</u>	
Hardness, Shore A, pts.	79
Tensile Strength, MPa	12.0
Elongation, %, min.	124
Modulus @ 100% Elongation, MPa	7.8
<u>Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B</u>	
Set, %	12
<u>Compression Set, 70 Hrs @ 316°C, ASTM D395 Method B</u>	
Set, %	45
<u>Low Temperature Retraction, ASTM D1329</u>	
TR-10 in degrees C	-2
<u>Volume Change, 70 Hrs @ RT, ASTM D471</u>	
Acetone, % Volume Change	0.4
Methyl Ethyl Ketone, % Volume Change	0.2
Methanol, % Volume Change	0.2
Benzene, % Volume Change	0.3
Toluene, % Volume Change	0.3
Dichloromethane, % Volume Change	0.6
Chloroform, % Volume Change	0.6
Ethyl Acetate, % Volume Change	0.4
MTBE, % Volume Change	0.2
Glacial Acetic Acid, % Volume Change	0.4
Conc. Phosphoric Acid, % Volume Change	0.0
50/50 by Volume, MEK/Methanol, % Volume Change	0.7
Tetrahydrofuran (THF), % Volume Change	0.4
Styrene Monomer, % Volume Change	0.0
Methyl Methacrylate Monomer, % Volume Change	0.5