



MATERIAL REPORT

DATE: November 2000

TITLE: General evaluation of Parker Compound FF202-90.

PURPOSE: To obtain general data for Parker Compound FF202-90.

CONCLUSION: Parker Compound FF202-90 is an ultra high temperature perfluorinated material.

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>FF202-90 2-214 O-Rings</u>
<u>Original Physical Properties</u>	
Hardness, Shore A, pts.	91
Tensile Strength, MPa	20.5
Elongation, %, min.	110
Modulus @ 100% Elongation, MPa	15.1
<u>Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B</u>	
Permanent Set, %	25
<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	0.5
Methyl Ethyl Ketone, % Volume Change	0.3
Methanol, % Volume Change	0.4
Benzene, % Volume Change	0.4
Toluene, % Volume Change	0.4
Dichloromethane, % Volume Change	0.7
Chloroform, % Volume Change	0.8
Ethyl Acetate, % Volume Change	0.4
MTBE, % Volume Change	0.2
Glacial Acetic Acid, % Volume Change	0.4
Conc. Phosphoric Acid, % Volume Change	0.2
50/50 by Volume, MEK/Methanol, % Volume Change	0.9
Tetrahydrofuran (THF), % Volume Change	0.5
Styrene Monomer, % Volume Change	0.1
Methyl Methacrylate Monomer, % Volume Change	0.6