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

FF202-90 2-214 O-Rings

Original Physical Properties
Hardness, Shore A, pts. 91
Tensile Strength, MPa 20.5
Elongation, %, min. 110
Modulus @ 100% Elongation, MPa 15.1

Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B
Permanent Set, % 25

Low Temperature Retraction, ASTM D1329
TR-10 in degrees C -2

Volume Change, 70 Hrs @ RT, ASTM D471
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