MATERIAL REPORT

DATE: July 2001

TITLE: General evaluation of Parker Compound FF354-65.

PURPOSE: To obtain general data for Parker Compound FF354-65

CONCLUSION: Parker Compound FF354-65 is a low closure force, white, 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**

**FF354-65 2-214 O-Rings**

**Original Physical Properties**
- Hardness, Shore A, pts: 65
- Tensile Strength, MPa: 8.0
- Elongation, %, min: 277
- Modulus @ 100% Elongation, MPa: 1.8

**Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B**
- Permanent Set, %: 28

**Compression Set, 70 Hrs @ 260°C, ASTM D395 Method B**
- Permanent Set, %: 41

**Low Temperature Retraction, ASTM D1329**
- TR-10 in degrees C: -1

**Volume Change, 70 Hrs @ RT, ASTM D471**
- Acetone, % Volume Change: 0.2
- Methyl Ethyl Ketone, % Volume Change: 0.2
- Methanol, % Volume Change: 0.1
- Benzene, % Volume Change: 0.2
- Toluene, % Volume Change: 0.1
- Dichloromethane, % Volume Change: 0.3
- Chloroform, % Volume Change: 0.5
- Ethyl Acetate, % Volume Change: 0.3
- MTBE, % Volume Change: 0.1
- Glacial Acetic Acid, % Volume Change: 0.1
- Conc. Phosphoric Acid, % Volume Change: 0.1
- 50/50 by Volume, MEK/Methanol, % Volume Change: 0.7
- Tetrahydrofuran (THF), % Volume Change: 0.4
- Styrene Monomer, % Volume Change: 0.3
- Methyl Methacrylate Monomer, % Volume Change: 0.2