



MATERIAL REPORT



CONTACT US

DATE: July 2001

TITLE: General evaluation of Parker Compound FF500-75.

PURPOSE: To obtain general data for Parker Compound FF500-75

CONCLUSION: Parker Compound FF500-75 is broad chemical resistance perfluorinated material.

Recommended temperature limits: 5 to 525 °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>FF500-75 2-214 O-Rings</u>
<u>Original Physical Properties</u>	
Hardness, Shore A, pts.	80
Tensile Strength, MPa	14.1
Elongation, %, min.	135
Modulus @ 100% Elongation, MPa	8.7
<u>Compression Set, 22 Hrs @ 230°C, ASTM D395 Method B</u>	
Permanent Set, %	23
<u>Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B</u>	
Permanent Set, %	19
<u>Low Temperature Retraction, ASTM D1329</u>	
TR-10 in degrees C	-1
<u>Volume Change, 70 Hrs @ RT, ASTM D471</u>	
Acetone, % Volume Change	0.1
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	0.9
Chloroform, % Volume Change	0.6
Ethyl Acetate, % Volume Change	0.4
MTBE, % Volume Change	0.5
Glacial Acetic Acid, % Volume Change	0.3
Conc. Phosphoric Acid, % Volume Change	0.1
50/50 by Volume, MEK/Methanol, % Volume Change	0.7
Tetrahydrofuran (THF), % Volume Change	0.6
Styrene Monomer, % Volume Change	0.3
Methyl Methacrylate Monomer, % Volume Change	0.3