



MATERIAL REPORT

DATE: 09/22/99

TITLE: General evaluation of Parker Compound V8581-90.

PURPOSE: To obtain general data for Parker Compound V8581-90.

CONCLUSION: Parker Compound V8581-90 is a white general purpose perfluorinated material.

Recommended temperature limits: 5 to 572 °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>Original Physical Properties</u>	<u>V8581-90 Test Platen Results</u>
Hardness, Shore A, pts.	90
Tensile Strength, MPa	11.3
Elongation, %, min.	110
Modulus @ 100% Elongation, MPa	10.5
 <u>Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B, 2-214 O-Rings</u>	
Permanent Set, %	33
 <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	0.2
Methyl Ethyl Ketone, % Volume Change	-0.1
Methanol, % Volume Change	-0.2
Benzene, % Volume Change	-0.1
Toluene, % Volume Change	-0.4
Dichloromethane, % Volume Change	1.0
Chloroform, % Volume Change	0.8
Ethyl Acetate, % Volume Change	-0.2
MTBE, % Volume Change	0.0