



MATERIAL REPORT

DATE: 09/22/99

- TITLE:** General evaluation of Parker Compound V8588-90.
- PURPOSE:** To obtain general data for Parker Compound V8588-90.
- CONCLUSION:** Parker Compound V8588-90 is an explosive decompression resistant 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>V8588-90 Test Platen Results</u>
Hardness, Shore A, pts.	91
Tensile Strength, MPa	21.8
Elongation, %, min.	112
Modulus @ 100% Elongation, MPa	19.7
 <u>Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B, 2-214 O-Rings</u>	
Permanent Set, %	29
 <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	0.7
Methyl Ethyl Ketone, % Volume Change	0.7
Methanol, % Volume Change	0.0
Benzene, % Volume Change	0.4
Toluene, % Volume Change	0.4
Dichloromethane, % Volume Change	1.8
Chloroform, % Volume Change	1.8
Ethyl Acetate, % Volume Change	0.6
MTBE, % Volume Change	0.9

V8588-90 is certified per MERL for Explosive Decompression Resistance in Natural Gas