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

V8588-90 Test Platen Results

Original Physical Properties
Hardness, Shore A, pts.  91
Tensile Strength, MPa  21.8
Elongation, %, min.  112
Modulus @ 100% Elongation, MPa  19.7

Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B, 2-214 O-Rings
Permanent Set, %  29

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

Volume Change, 70 Hrs @ RT, ASTM D471
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

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