



Compound

9717**FLUORINATED
HYDROCARBON - 70 DURO
BLACK - MOLY FILLED****PRODUCT DATA SHEET**

Compound 9717 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with molybdenum disulfide to provide internal lubrication. It exhibits good resistance to compression set, petroleum based oils, aliphatic and aromatic fuels.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	648 psi	4.5 MPa
Tensile Strength	1746 psi	12.0 MPa
Ultimate Elongation	288 %	
Hardness, Shore A	73 Durometer	
Specific Gravity	1.96 grams/cc	
Brittleness Temperature	-6 °F	-21 °C
Tear Resistance, Die B	0 ppi	0.0 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	4.7 %
Plied: 22 hrs @ 347°F (175°C)	26.0 %
Plied: 22 hrs @ 392°F (200°C)	19.5 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 31.6 %
Change - Elongation	+ 26.0 %
Change - Hardness, Shore A	0

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Hardness, Shore A	- 3
Change - Volume	+ 6.0 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 3.4 %
Change - Elongation	- 4.5 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 8.7 %
Change - Elongation	- 4.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.3 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 3.2 %
Change - Elongation	- 8.7 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 0.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 2.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 1.5 %

SERVICE FLUID 101: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 14.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 12.8 %

STAUFFER BLEND 7700: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 20.0 %
Change - Elongation	- 8.7 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 32.5 %