



Compound

**9917****FLUORINATED  
HYDROCARBON - 90 DURO  
BLACK - MOLY FILLED****PRODUCT DATA SHEET**

Compound 9917 is a 90 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with molybdenum disulfide to provide internal lubrication. It exhibits good resistance to petroleum based oils, aliphatic and aromatic fuels.

This compound has the following physical properties:

**Original Properties**

Modulus @ 100% Elongation	1707 psi	11.8 MPa
Tensile Strength	1929 psi	13.3 MPa
Ultimate Elongation	140 %	
Hardness, Shore A	95 Durometer	
Specific Gravity	1.92 grams/cc	
Brittleness Temperature	19 °F	-7 °C
Tear Resistance, Die B	226 ppi	39.6 kN/m
Tear Resistance, Die C	195 ppi	34.2 kN/m

**Compression Set**

Plied: 22 hrs @ RT (73°F, 23°C)	32.7 %
Plied: 22 hrs @ 347°F (175°C)	16.2 %
Plied: 22 hrs @ 392°F (200°C)	19.6 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 38.3 %
Change - Elongation	- 42.9 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 2.2 %

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

Change - Tensile Strength	- 2.4 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	0
Change - Volume	- 0.1 %

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

Change - Tensile Strength	- 7.7 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.0 %



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

Change - Tensile Strength	- 12.5 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.5 %

**ASTM OIL #1: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	+ 6.1 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %

**ASTM OIL #3: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	- 7.1 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.0 %

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

Change - Tensile Strength	- 21.4 %
Change - Elongation	- 7.1 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 9.3 %

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

Change - Tensile Strength	- 17.6 %
Change - Elongation	- 14.3 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 15.8 %