



Compound

9919**FLUORINATED
HYDROCARBON - 90 DURO
BLACK-GRAPHITE FILLED****PRODUCT DATA SHEET**

Compound 9919 is a 90 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with graphite to provide internal lubrication. It exhibits good resistance to heat, petroleum based oils, aliphatic and aromatic fuels.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 3 HK 915 A1-10 B37 B38 EF31 EO78
5 HK 915 A1-11 B38 EF31 EO78
7 HK 915 A1-10 A1-11 EF31 EO88

Original Properties

Modulus @ 100% Elongation	1475 psi	10.2 MPa
Tensile Strength	1650 psi	11.4 MPa
Ultimate Elongation	125 %	
Hardness, Shore A	92 Durometer	
Specific Gravity	1.87 grams/cc	
Brittleness Temperature	21 °F	-6 °C
Tear Resistance, Die B	219 ppi	38.4 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	22.6 %
Plied: 22 hrs @ 347°F (175°C)	0.0 %
Plied: 22 hrs @ 392°F (200°C)	32.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 0.2 %
Change - Elongation	- 9.6 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 23.2 %
Change - Elongation	+ 20.0 %
Change - Hardness, Shore A	+ 3

Compression Set, Plied: 22 hrs @ 347°F (175°C)

Change - Tensile Strength	+ 15.8 %
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DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Hardness, Shore A	- 1
Change - Volume	+ 2.8 %



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Change - Tensile Strength	+ 6.3 %
Change - Elongation	+ 10.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 3.6 %
Change - Elongation	+ 10.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.5 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.5 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 2.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.1 %

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

Change - Tensile Strength	- 7.4 %
Change - Elongation	+ 10.4 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 7.6 %

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

Change - Tensile Strength	- 3.6 %
Change - Elongation	+ 10.4 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 11.8 %