



Compound

9719**FLUORINATED
HYDROCARBON - 70 DURO
BLACK-GRAPHITE FILLED****PRODUCT DATA SHEET**

Compound 9719 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with Graphite to provide internal lubrication. It exhibits good resistance to heat, compression set, petroleum based oils, aliphatic and aromatic fuels

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

ASTM D2000 2 HK 715 A1-10 B37 B38 EF31 EO78
4 HK 715 A1-11 B38 EF31 EO78
6 HK 715 A1-10 A1-11 B31 B38 EF31 EO88

Original Properties

Modulus @ 100% Elongation	658 psi	4.5 MPa
Tensile Strength	1520 psi	10.5 MPa
Ultimate Elongation	260 %	
Hardness, Shore A	73 Durometer	
Specific Gravity	1.87 grams/cc	
Brittleness Temperature	7 °F	-14 °C
Tear Resistance, Die B	146 ppi	25.6 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	14.7 %
Plied: 22 hrs @ 347°F (175°C)	10.5 %
Plied: 22 hrs @ 392°F (200°C)	14.9 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 3.2 %
Change - Elongation	- 3.8 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 15.8 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	+ 5

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

Change - Hardness, Shore A	0
Change - Volume	+ 3.3 %

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

Change - Tensile Strength	+ 2.0 %
Change - Elongation	+ 7.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %



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

Change - Tensile Strength	- 8.1 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.4 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 1.9 %
Change - Elongation	- 3.8 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 1.3 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.2 %

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

Change - Tensile Strength	- 11.7 %
Change - Elongation	+ 11.4 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 8.7 %

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

Change - Tensile Strength	- 18.2 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 15.7 %