



Compound

9709**FLUORINATED
HYDROCARBON - 70 DURO
BLACK - GASAHOL RESIST****PRODUCT DATA SHEET**

Compound 9709 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is specifically formulated for resistance to alcohol extended fuels. It also 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 2 HK 715 A1-10 B37 B38 EF31 EO78
4 HK 715 A1-11 B38 EF31 EO78
6 HK 715 A1-10 A1-11 EF31 EO88

Original Properties

Modulus @ 100% Elongation	479 psi	3.3 MPa
Tensile Strength	1690 psi	11.7 MPa
Ultimate Elongation	363 %	
Hardness, Shore A	73 Durometer	
Specific Gravity	1.91 grams/cc	
Brittleness Temperature	9 °F	-13 °C
Tear Resistance, Die B	121 ppi	21.2 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	25.2 %
Plied: 22 hrs @ 347°F (175°C)	15.8 %
Plied: 22 hrs @ 392°F (200°C)	21.2 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 4.7 %
Change - Elongation	+ 3.3 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 31.2 %
Change - Elongation	+ 34.4 %
Change - Hardness, Shore A	- 1

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

Change - Tensile Strength	- 11.2 %
Change - Elongation	+ 13.8 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 8.4 %

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

Change - Tensile Strength	- 4.0 %
Change - Elongation	+ 3.3 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.5 %



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Change - Tensile Strength	- 12.5 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.4 %

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

Change - Tensile Strength	- 10.8 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.1 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 5.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 0.4 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 7.8 %
Change - Elongation	- 10.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 1.6 %

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

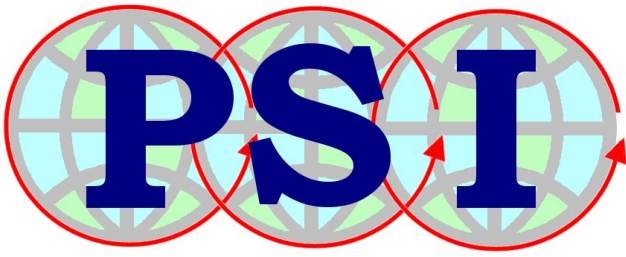
Change - Tensile Strength	- 7.0 %
Change - Elongation	+ 10.2 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 7.2 %

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

Change - Tensile Strength	- 6.0 %
Change - Elongation	+ 13.8 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 7.2 %

GASAHOL 70 hrs @ RT (70°F, 23°C)

Change - Hardness, Shore A	- 7
Change - Volume	+ 8.7 %



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METHANOL: Aged 70 hrs @ RT (73°F, 23°C)

Change - Hardness, Shore A	- 2
Change - Volume	+ 3.1 %

UNLEADED GAS (89 Octane): Aged 70 hrs @ RT (23°C)

Change - Tensile Strength	- 6.7 %
Change - Elongation	+ 3.3 %
Change - Hardness, Shore A	+ 1
Change - Volume	+ 0.7 %