



Compound
8703
FLUORINATED HYDROCARBON
70 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 8703 is a 70 durometer black colored Viton® GLT. It exhibits good low temperature flexibility coupled with good heat, fluid and compression set resistance.

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

ASTM D2000 2 HK 720 A1-10 B37 B38 EF31 F15
4 HK 720 A1-11 B38 EF31 EO78 F17
6 HK 720 A1-10 A1-11 B31 B38 EF31 EO88 F15

AMS-R-83485 Type I

This Compound is RoHS Compliant



Original Properties

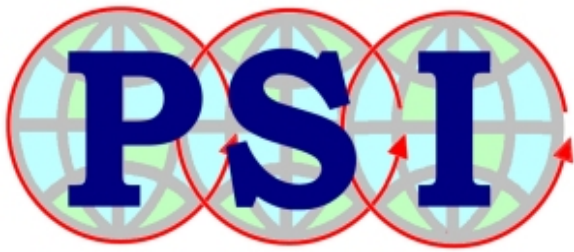
Modulus @ 100% Elongation	576 psi	4.0 MPa
Tensile Strength	2,439 psi	16.8 MPa
Ultimate Elongation	273 %	
Hardness, Shore A	70 Durometer	
Specific Gravity	1.84 grams/cc	
Brittleness Temperature	-48 °F	-44 °C
TR-10 Temperature	-30 °F	-34 °C
Tear Resistance, Die B	137 ppi	24.0 kN/m
Tear Resistance, Die C	126 ppi	22.1 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	10.2 %
Plied: 22 hrs @ 347°F (175°C)	10.0 %
Plied: 22 hrs @ 392°F (200°C)	11.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 0.3 %
Change - Elongation	+ 6.8 %
Change - Hardness, Shore A	0



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Change - Tensile Strength	- 2.1 %
Change - Elongation	+ 14.9 %
Change - Hardness, Shore A	+ 1

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

Change - Tensile Strength	- 1.2 %
Change - Elongation	- 3.0 %
Change - Hardness, Shore A	+ 2
Change - Volume	+ 0.4 %

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

Change - Tensile Strength	- 21.4 %
Change - Elongation	- 14.3 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 5.0 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	0.0 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	+ 1
Change - Volume	+ 0.4 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)

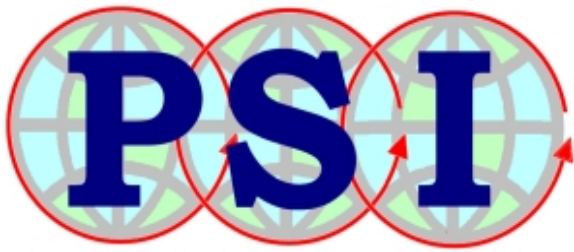
Change - Tensile Strength	- 5.5 %
Change - Elongation	- 0.9 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 27.8 %
Change - Elongation	- 23.2 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 9.9 %

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

Change - Tensile Strength	- 15.9 %
Change - Elongation	- 14.5 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 15.8 %



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Change - Volume + 6.2 %**85% EtOH/15% FUEL C : AGED 168 hrs. @ 70°F, 23°C**Change - Hardness, Shore A - 4
Change - Volume + 9.9 %**15% EtOH/85% FUEL C : AGED 168 hrs. @ 70°F, 23°C**Change - Hardness, Shore A - 8
Change - Volume + 18.7 %**ETHANOL : AGED 600 hrs. @ RT (70°F, 23°C)**Change - Hardness, Shore A - 3
Change - Volume + 9.5 %**85% EtOH/15% FUEL C : Aged 600 hrs. @ 70°F, 23°C**Change - Hardness, Shore A - 5
Change - Volume + 13.3 %**15% EtOH/85% FUEL C : Aged 600 hrs. @ 70°F, 23°C**Change - Hardness, Shore A - 6
Change - Volume + 19.3 %**ETHANOL : AGED 1600 hrs. @ RT (70°F, 23°C)**Change - Hardness, Shore A - 3
Change - Volume + 9.5 %**85% EtOH/15% FUEL C : AGED 1600 hrs. @ 70°F, 23°**Change - Hardness, Shore A - 5
Change - Volume + 12.8 %**15% EtOH/85% FUEL C : AGED 1600 hrs. @ 70°F, 23°C**Change - Hardness, Shore A - 7
Change - Volume + 19.2 %



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ETHANOL : AGED 70 hrs. @ RT (70°F, 23°C)

Change - Hardness, Shore A - 2
Change - Volume + 3.9 %

85% EtOH/15% FUEL C : AGED 70 hrs. @ 70°F, 23°C

Change - Hardness, Shore A - 3
Change - Volume + 6.2 %

15% EtOH/85% FUEL C : AGED 70 hrs. @ 70°F, 23°C

Change - Hardness, Shore A - 6
Change - Volume + 13.0 %