



Compound

8748FLUORINATED-
HYDROCARBON - 70 DURO
BLACK - FDA APP. MAT'L**PRODUCT DATA SHEET**

Compound 8748 is a 70 durometer black colored Viton that is formulated with FDA approved materials. It exhibits excellent 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 B31 B38 EF31 EO88

3-A Sanitary Standards 18-03 Class I, II, III & IV.

Original Properties

Modulus @ 100% Elongation	665 psi	4.6 MPa
Tensile Strength	2004 psi	13.8 MPa
Ultimate Elongation	259 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.85 grams/cc	
Brittleness Temperature	-10 °F	-23 °C
Tear Resistance, Die B	130 ppi	22.8 kN/m
Tear Resistance, Die C	143 ppi	25.0 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	9.8 %
Plied: 22 hrs @ 392°F (200°C)	12.1 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 11.2 %
Change - Elongation	- 17.0 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 527°F (275°C)

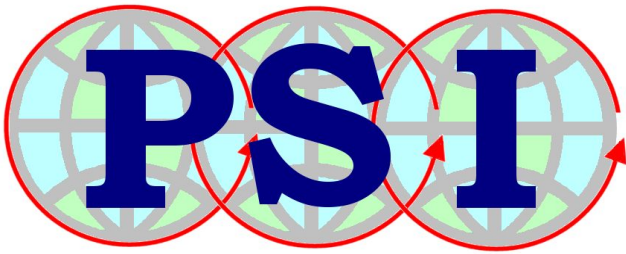
Change - Tensile Strength	- 15.7 %
Change - Elongation	- 13.1 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.7 %

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

Change - Tensile Strength	- 24.0 %
Change - Elongation	- 15.1 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.5 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.9 %
Change - Elongation	- 0.8 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.5 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 16.1 %
Change - Elongation	- 12.4 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 2.0 %

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

Change - Tensile Strength	- 24.1 %
Change - Elongation	- 2.3 %
Change - Hardness, Shore A	+ 5
Change - Volume	+ 10.5 %

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

Change - Tensile Strength	- 33.2 %
Change - Elongation	- 17.4 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 16.9 %