

Compound

9737**FLUORINATED -
HYDROCARBON - 70 DURO
BROWN - FDA SANCTIONED****PRODUCT DATA SHEET**

Compound 9737 is a 70 durometer brown colored fluorinated hydrocarbon elastomer, it is formulated with FDA sanctioned materials. 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 2 HK 715 A1-10 B37 B38 EF31 EO78 F15
4 HK 715 A1-11 B38 EF31 EO78
6 HK 715 A1-10 A1-11 B31 EF31 EO88 F15

3A Sanitary Standards Class I, II, III & IV

Original Properties

Modulus @ 100% Elongation	527 psi	3.6 MPa
Tensile Strength	1787 psi	12.3 MPa
Ultimate Elongation	232 %	
Hardness, Shore A	70 Durometer	
Specific Gravity	1.87 grams/cc	
Brittleness Temperature	-26 °F	-32 °C
Tear Resistance, Die B	137 ppi	24.0 kN/m
Tear Resistance, Die C	130 ppi	22.8 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	11.2 %
Plied: 22 hrs @ 347°F (175°C)	13.4 %
Plied: 22 hrs @ 392°F (200°C)	21.4 %

HEAT AGED: 70 hrs @ 482°F (250°C)

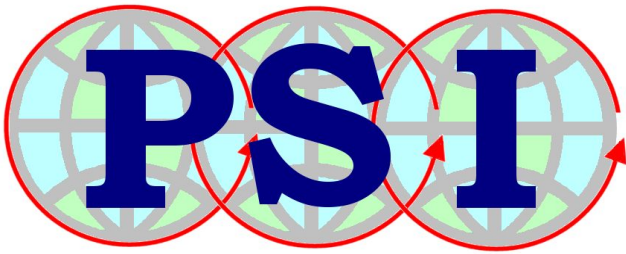
Change - Tensile Strength	+ 7.3 %
Change - Elongation	+ 2.2 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 21.8 %
Change - Elongation	+ 25.5 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	0
Change - Volume	+ 3.1 %



Compound

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Change - Tensile Strength	+ 8.2 %
Change - Elongation	+ 8.7 %
Change - Hardness, Shore A	0
Change - Volume	- 0.1 %

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

Change - Tensile Strength	- 2.8 %
Change - Elongation	- 0.9 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 16.8 %
Change - Elongation	- 7.8 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.7 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 14.5 %
Change - Elongation	+ 8.7 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 11.9 %
Change - Elongation	+ 9.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 10.1 %
Change - Elongation	+ 7.4 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.7 %

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

Change - Tensile Strength	- 23.2 %
Change - Elongation	- 10.4 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 17.1 %