

Compound

9703FLUORINATED HYDROCARBON
75 DURO - PURPLE COLOR
LOW TEMPERATURE**PRODUCT DATA SHEET**

Compound 9703 is a 75 durometer purple colored Fluorinated Hydrocarbon elastomer. It is specifically formulated for low temperature applications. It also exhibits good resistance to compression set, petroleum based oils, aliphatic and aromatic fuels and oxygenated fuels.

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

ALL TEST RESULTS ARE ON AS 568 -214 O-RINGS

This Compound is RoHS Compliant**Original Properties**

Modulus @ 100% Elongation	1227 psi	8.5 MPa
Tensile Strength	1,326 psi	9.1 MPa
Ultimate Elongation	109 %	
Hardness, Shore A	77 Durometer	
Specific Gravity	2.07 grams/cc	
Brittleness Temperature	-49 °F	-45 °C
TR-10 Temperature	-40 °F	-40 °C

Compression Set

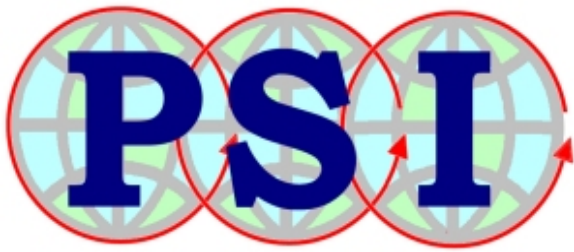
O-Ring: 70 hrs @ 392°F (200°C)	14.7 %
O-Ring: 22 hrs @ 347°F (175°C)	8.0 %
O-Ring: 22 hrs @ 392°F (200°C)	13.6 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 10.9 %
Change - Elongation	+ 57.8 %
Change - Hardness, Shore A	0

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

Change - Tensile Strength	- 7.6 %
Change - Elongation	+ 0.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.1 %



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

Change - Tensile Strength	- 29.4 %
Change - Elongation	- 16.1 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 4.6 %

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

Change - Tensile Strength	- 29.5 %
Change - Elongation	- 14.4 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 6.5 %

15% EtOH/85% FUEL C : AGED 1900 hrs. @ 70°F, 23°C

Change - Volume	+ 11.9 %
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15% EtOH/85% FUEL C : AGED 2800 hrs. @ 70°F, 23°C

Change - Volume	+ 12.4 %
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ASTM REFERENCE FUEL A: 1900 hrs @ RT (73°F, 23°C)

Change - Volume	+ 3.9 %
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ASTM REFERENCE FUEL A: 2800 hrs @ RT (73°F, 23°C)

Change - Volume	+ 4.0 %
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ASTM REFERENCE FUEL B: 1900 hrs @ RT (73°F, 23°C)

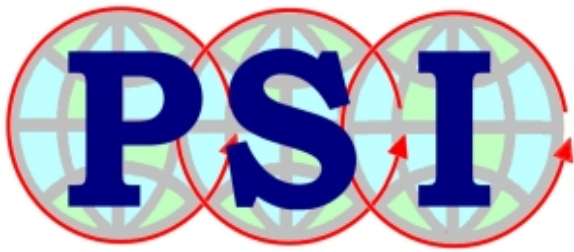
Change - Volume	+ 8.7 %
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ASTM REFERENCE FUEL B: 2800 hrs @ RT (73°F, 23°C)

Change - Volume	+ 8.7 %
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ASTM REFERENCE FUEL C: 1900 hrs @ RT (73°F, 23°C)

Change - Volume	+ 10.3 %
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ASTM REFERENCE FUEL C: 2800 hrs @ RT (73°F, 23°C)

Change - Volume + 10.3 %

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

Change - Tensile Strength - 36.3 %
Change - Elongation - 14.4 %
Change - Hardness, Shore A - 5
Change - Volume + 7.3 %

METHANOL : AGED 1900 hrs @ RT (73°F, 23°C)

Change - Volume + 13.5 %

METHANOL : AGED 2800 hrs @ RT (73°F, 23°C)

Change - Volume + 13.9 %