



Porter Seal Denver
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Compound Technical Report Viton 75 (Fluorocarbon)

General properties: Viton is DuPont's trade name for Fluorocarbon Elastomers. These compounds offer the best resistance to a combination of chemicals, weather and compression set over a temperature range of -20°F to +400°F. Other benefits include resistance to aging, low gas permeability and the material is self extinguishing.

ASTM Designation	MIL-R-83248C/1	Actual Result
Original properties		
Durometer, Shore A	75 ± 5	76
Tensile, psi (MPa), min.	1450 min	1,773
Elongation, % min	150	220
Specific Gravity	-	+ 1.85
A1-10 Heat age, 70 hrs @ 250° C		
Durometer change, points	+ 10	+ 2
Tensile strength change, % max	- 25	+ 5
Elongation change, % max	- 25	- 9
B38 Compression Set, 22 hrs @ 200° C		
Compression Set, % original deflection	15	10.8
C12 Resistance to ozone		
ASTM D1171, Method B	No cracks	No cracks
C20 Resistance to outdoor aging		
ASTM D1171	No cracks	No cracks
EF31 Fuel Age, 70 hrs @ 23° C in reference Fuel C		
Durometer change, points	± 5	- 1
Tensile change, % max	- 25	- 14
Elongation change, % max	- 20	- 12
Volume change, % max	0 / +10	+ 3
E088 Fuel Age, 70 hrs @ 200° C in Stauffer 7700/SAE Fluid #2		
Durometer change, points	-15 / +5	- 6
Tensile change, % max	- 40	- 21
Elongation change, % max	- 20	- 14
Volume change, % max	+ 25	+ 8
Specifications met:	ASTM D2000-01 Grade M6HK810 A1-10 B38 C12 C20 EF31 E088 Z1=75±5 Z2 Low Temperature TR10 Retraction	

<u>Viton is Recommended for</u>	<u>Viton is NOT Recommended for</u>
Mineral Oils and Greases	Hot water
Aliphatic, aromatic and chlorinated hydrocarbons	Steam
Fuels	Glycol based brake fluids
Non flammable hydraulic fluids (HFD)	Polar solvents
Many organics solvents	Low molecular weight organic acids