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Compound Technical Report Viton 90 (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	Specification	Actual Result
Original properties		
	Durometer, Shore A	90 ± 5
	Tensile, psi (MPa), min.	1450 min
	Elongation, % min	100
	Specific Gravity	-
A1-10 Heat age, 70 hrs @ 250° C		
	Durometer change, points	+ 10
	Tensile strength change, % max	- 25
	Elongation change, % max	- 25
B38 Compression Set, 22 hrs @ 200° C		
	Compression Set, % original deflection	50
EF31 Fuel Age, 70 hrs @ 23° C in reference Fuel C		
	Durometer change, points	± 5
	Tensile change, % max	- 25
	Elongation change, % max	- 20
	Volume change, % max	0 / +10
E078 Fuel Age, 70 hrs @ 200° C in ASTM #101 Oil		
	Durometer change, points	-15 / +5
	Tensile change, % max	- 40
	Elongation change, % max	- 20
	Volume change, % max	0 to + 15

Specifications met:

ASTM D2000 M2HK910 A1-10 B38 EF31 E078 Z1
Z1: Viton Type A

Viton is Recommended for

Mineral Oils and Greases
Aliphatic, aromatic and chlorinated hydrocarbons
Fuels
Non flammable hydraulic fluids (HFD)
Many organics solvents

Viton is NOT Recommended for

Hot water
Steam
Glycol based brake fluids
Polar solvents
Low molecular weight organic acids