

Elastomer and Fuels Compatibility Chart



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ELASTOMERS

<u>FUELS</u>	General Purpose Fluoroelastomer (FKM)	Nitrile	Silicone	Specification
Kerosene	1	1	4	
Gasoline	1	1-2	4	
Soddard Solvent	1	1	4	ASTM D-484-52
Diesel	1	1	4	
Bio-Diesel (Ethyl Stearate)	3	3	X	
JP-3	1	1	4	JP-3 (Mil-T-5624)
JP-4	1	1	4	JP-4 (Mil-T-5624)
JP-5	1	1	4	JP-5 (Mil-T-5624)
JP-8	1	1	4	JP-8 (Mil-T-83133)
JP-10	1	1	4	
Fuel Oil, 1 and 2	1	1	4	
Fuel Oil, #6	1	1	2	
Ethanol	2	3*	1	
Methanol	4	3*	1	
E10	2	2-3	4	
E85	2	2-3	4	

COMPOUND COMPATIBILITY RATING

- 1 - SATISFACTORY
- 2 - FAIR
- 3 - DOUBTFUL
- 4 - NOT RECOMMENDED
- X - INSUFFICIENT DATA

Approximate Service Temperature Ranges

- Fluorocarbon (Viton): -15°F to 400°F
- Nitrile: -30°F to 250°F
- Silicone: -65°F to 450°F

* In Dynamic Applications

Data from Dupont Performance Elastomers Database, Chemical Resistance Guide for Elastomers III, 2005 and Dow Corning Chemical Resistance Guide for Silastic Materials.

For additional information please contact a Fairchild Applications Engineer at 336-659-3400.