

Selecting the Type of Viton® That Is Best For You

There are many types of Viton® to meet specific end-use and processing needs. This table shows how different types of Viton® compare in chemical resistance and mechanical properties.

Selecting the type that best meets your needs is important, but is not complicated, and help is available from Problem Solving Products, Inc. (303-758-2728). The general purpose types differ from the specialty types primarily in chemical resistance and low temperature flexibility. In the specialty family, the choice is among four types that are tailored for superior fluid resistance, low-temperature performance or combinations of these properties.

Each family of Viton® is available in a number of types. The type to be used for a specific application is selected for manufacturability as well as performance.

Relative Chemical Compatibility and Mechanical Properties of Viton® Fluoroelastomers								
Chemical Environment	Viton® General Use Family Types			Viton® Specialty Family Types				
	A	B	F	GBL	GF	GLT	GFLT	ETP
Automotive and aviation fuels	1	1	1	1	1	1	1	1
Automotive fuels oxygenated with MEOH, ETOH, MTBE, etc.	4	2	1	2	1	4	1	1
Engine lubricating oil, SE and SF	2	1	1	1	1	1	1	1
Engine lubricating oil, SG and SH	3	2	2	1	1	2	1	1
Aliphatic hydrocarbon process fluids, chemicals	1	1	1	1	1	1	1	1
Aromatic hydrocarbon process fluids, chemicals	2	2	1	1	1	2	1	1
Aqueous fluids, steam mineral acids	3	2	2	1	1	1	1	1
Strong base, high pH, caustic, aminos	4	4	4	4	4	4	4	1-2
Low molecular weight carbonyls - 100% concentration (MTBB, MBK, MIBK, etc.)	4	4	4	4	4	4	4	1-2
Compression Set and Low-Temperature Performance								
Resistance to compression set	1	2	2	2	3	2	2	2
Low-temperature flexibility	2	2	3	2	3	1	1	2

Key: 1 = Excellent 2 = Fair to Good 3 = Poor 4 = Not Recommended