



PRODUCT NEWS

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VITON® RUBBER

High Performance Qualities

Auburn Fluorocarbon Elastomer, Viton®, is a high performance rubber compound designed for use when it is necessary to contain fluids that would degrade normal elastomers. Viton® is specifically developed to seal against commercial fuels, oils, solvents, hydrocarbons and chemicals at elevated temperatures. Viton® is unsurpassed in this category (solvent resistance) by any other elastomer.

Availability

Auburn Viton® is available in gaskets, seals, diaphragms, O-rings, coated fabrics, round & square cord stock, calendared sheet, molded sheet and other cut parts. Viton® Rubber is available in commercial grades as well as ones which conform to MIL-R-83248, AMS7278D and AMS-7280.

Typical Physical Properties

Tensile Strength Minimum		1400-2300
Elongation, Minimum %		150-350
Hardness, Shore A		55-85
Specific Gravity		1.85
Temperature Range		-40 F to +400 F
Vulcanizing Properties		Good
Adhesion to Metals		Good to Excellent
Adhesion to Fabrics		Good to Excellent
Tear Resistance		Fair
Abrasion Resistance		Good
Compression Set		Very Good
Rebound	Cold	Good
	Hot	Excellent
Dielectric Strength		Good
Electrical Insulation		Fair to Good
Permeability to Gases		Very Low
Acid Resistance	Dilute	Excellent
	Concentrated	Excellent
	Aliphatic Hydrocarbons	Excellent
	Aromatic Hydrocarbons	Excellent
Solvent Resistance	Oxygenated (Ketones, etc.)	Poor
	Lacquer Solvents	Poor
	Swelling in Lubricating Oil	Excellent
	Oil and Gasoline	Excellent
	Animal and Vegetable	Excellent
	Water Absorption	Very Good
	Oxidation	Outstanding
	Ozone	Outstanding
	Sunlight Aging	Very Good
	Heat Aging	Outstanding
Resistance to:	Flame	Good
	Heat	Excellent
	Cold	Good

(Not recommended for use as seals with low molecular weight esters and ethers, ketones, certain amines, alkyl phosphate esters, hot anhydrous hydrofluoric or chlorosulfonic acids, and a few proprietary fluids such as skydrol 500A.) Viton® is a registered trademark of DuPont.