

FKM / VITON Chemical Compatibility Chart

Fluoroelastomer sealing reference - Anlitech Rubber & Silicone Components

Service temperature range: typically -20 C to +200 C continuous, up to +230 C intermittent depending on compound grade. Low-temperature brittle point varies by formulation. FKM (also known as VITON) offers outstanding resistance to oils, fuels, hydrocarbons and ozone, with limited resistance to amines, ketones, esters, alcohols and strong bases.

	Recommended
	Limited
	Not Recommended

Chemical / Medium	Rating	Note
Water (below 100 C)	Recommended	Excellent; avoid prolonged steam
Steam (high temp)	Limited	Limited; avoid sustained steam service
Hydrochloric acid (<37%)	Recommended	Good resistance
Sulfuric acid (dilute)	Recommended	Good; concentrated is limited
Sulfuric acid (conc.)	Limited	Limited; monitor concentration
Nitric acid	Limited	Limited; avoid strong oxidizers
Acetic acid (dilute)	Recommended	Good
Acetic acid (conc.)	Limited	Limited
Sodium hydroxide (caustic)	Limited	Limited; swell with concentration
Ammonia (aqueous)	Limited	Limited resistance
Mineral / petroleum oil	Recommended	Excellent
Hydraulic fluid (petroleum)	Recommended	Excellent
Engine oil / lubricants	Recommended	Excellent
Diesel fuel	Recommended	Excellent
Gasoline / petrol	Recommended	Excellent
Kerosene / jet fuel	Recommended	Excellent
Benzene	Recommended	Resistant
Toluene / Xylene	Recommended	Resistant
Methanol	Limited	Not ideal; alcohols cause swell
Ethanol	Limited	Limited resistance
Acetone	Limited	Limited; ketone swell
Brake fluid (glycol-based)	Not Recommended	Avoid; FKM not compatible
Skydrol (phosphate ester)	Not Recommended	Avoid; not compatible
Chlorinated solvents	Not Recommended	Avoid; severe swell
Ozone / weathering	Recommended	Excellent; outstanding
Hydrogen peroxide	Limited	Limited; strong oxidizers

Need a specific compound or size?

Anlitech supplies FKM / VITON O-rings, gaskets, seals and custom molded parts to drawing or sample. Request a quote or download the interactive AS568 / ISO 3601 / JIS B2401 size charts at www.anlitech.com.