

Material / temperature	Property	Recommended Use	Not Recommended
Nitrile (Buna-N) -40 C to +135 C Nitrile (Low-Temp) -65 C to +120 C	Good resistance to petroleum based on oils and fuels, silicone greases, hydraulic fluids, water and alcohols. It has a good balance of working properties such as low compression set, high tensile strength, high abrasion resistance, and combined with a low cost	Silicone Greases / Oils Water Petroleum Oils / Fuels Ethylene Glycol Fluids	Keystones (MEK) Halogenated Hydrocarbons Auto / Aircraft Brake Fluids Strong Acids Sunlight, Ozone, Weathering phosphate esters, and H2S
VITON® (Fluorocarbon) -30 C to +204 C	Featuring excellent resistance to petroleum products and solvents, with good high temperature and low compression set characteristics. For use with wide chemical exposure situations, and with low gas permeability, it is also suited for hard vacuum service.	Most Acids / Chemicals Halogenated Hydrocarbons Di-Ester Lubricants Petroleum Oils / Fuels Silicone Oils / Greases transmission fluid	Keystones (MEK) Auto / Aircraft Brake Fluids Amines (Ammonia) H2S Acetone, Skydrol, Ethyl Acetate Hot Water and Steam Low Molecular Esters and Ethers
Aflas -30 C to +204 C *reg. TM Asahi Glass Co.	Aflas is a unique fluoro elastomer resistant to petroleum oils, steam, hydrogen sulfide and amine corrosion inhibitors. This compound is generally used for sour gas oil field services.	petroleum oils, H2S, steam	acetone, lacquers
EPDM (Ethylene Propylene) -54 C to +150 C	Ethylene Propylene has excellent ozone and chemical resistance characteristics. Generally used in automotive brake systems.	brake fluids, refrigerants, Sunlight, Ozone, Weathering Hot Water and Steam Auto / Aircraft Brake Fluids	Petroleum Oils, Fuels, diesel lubricants
FVMQ (Fluorosilicone) -62 C to +240 C	Fluoro silicone combines the good high and low temperature stability of silicone with the fuel, oil, and solvent resistance of fluorocarbon	Jet Fuel, Dry Heat, Wide Temperature Range ,Petroleum Oils, Chlorinated Solvents, and gasoline	Keystones (MEK) Phosphate Esters Some Acids Auto / Aircraft Brake Fluids Amines (Ammonia), acetone, ethyl acetate
Highly Saturated Nitrile (HSN, HNBR) -26 C to +160 C	A nitrile elastomer with excellent resistance to petroleum oils, and sour gas. With the extended temperature range, HSN is becoming a preferred compound in the oil patch	petroleum oils, H2S, CO2	brake fluid

<p>Neoprene -40 C to +135 C</p>	<p>Due to its excellent resistance to Freon and ammonia, Neoprene is widely accepted as a preferred elastomer for refrigeration seals</p>	<p>refrigerants, alcohol, ozone, Ammonia, Some Petroleum Oils, Dilute Acids, Silicone and ester Lubricants</p>	<p>petroleum oils, Toluene, Keystones (MEK) Gasoline, Auto / Aircraft Brake Fluids</p>
<p>Polyurethane -50 C to +105 C</p>	<p>An excellent elastomer with high abrasion resistance characteristics and high tensile strength. Used in high pressure hydraulic systems where highly stressed parts are subject to wear.</p>	<p>petroleum oils, hydraulic oils, Some Hydrocarbon Fuels, Oxygen / Ozone, Drive Belts</p>	<p>Keystones (MEK) Acids Auto / Aircraft Brake Fluids Chlorinated Hydrocarbons Water</p>
<p>Silicone (VMQ) -65 C to +260 C</p>	<p>Silicone elastomer is resistant to high, dry heat, in primarily static applications. It has low compression set characteristics and a wide temperature range.</p>	<p>Dry Heat, alcohol, vegetable oil, Wide Temperature Range, Sunlight, Ozone, Weathering Odourless and Non-Toxic</p>	<p>Keystones (MEK) Acids Silicone Oils Brake Fluids, petroleum oils & fuels</p>
<p>Teflon (PTFE) -40 C to +240 C</p>	<p>Excellent chemical resistant, Teflon is a tough, chemically inert elastomer possessing an incredible working range. For static and slow intermittent dynamic situations. Teflon is hampered only by it's poor memory at low temperature</p>	<p>The most chemical Resistance, Fuel Resistance, Low Coefficient of Friction</p>	<p>Non-Elastic</p>
<p>FFPM/FFKM (Chemraz® / Kalrez® / Simriz® Perfluoroelastomer) ~ +323 C</p>	<p>Excellent chemical resistance, Excellent Temperature resistance elastomer Various Compounds Designed for Specific Applications</p>	<p>High Temperature Resistance, Excellent Chemical Resistance, Low Out Gassing, Chlorine Wet/Dry, Petroleum Oil, Chlorinated Hydrocarbons</p>	<p>Molten metals Gaseous Alkali Metals Halogenated Freon/Fluids Uranium Hexafluoride</p>
<p>FEPV/PFAV (Teflon Encapsulated O-Ring) -40 C to +260 C</p>	<p>Covered with Teflon Tube Usually Silicone or VITON® Good Wear Resistance Good Permeation Resistance</p>	<p>The most chemical Resistance, Fuel Resistance, Low Coefficient of Friction, Heat Resistance</p>	<p>Depends on O-Ring Core</p>
<p>Graphite (Pure, Engineered) -240 C to +800 C</p>	<p>Excellent chemical stability and wide range of temperature extreme low & high</p>	<p>Most chemical resistance, Excellent heat resistance</p>	