

GASKET SELECTION GUIDE

Gasket selection depends on your process temperature, reactivity and other variables. For most applications Klinger is standard however suitability for process is determined by the customer.

GASKET SELECTION CHART

Code	Material	Maximum Temperature (°F)	Minimum Temperature (°F)	Description	Common Applications	Cost
K	Klinger C4401	500°F	-110°F	Compressed aramid synthetic fiber reinforced with a nitrile binder. Excellent sealability and general purpose use	Mild inorganic and organic acids, concentrated and diluted alkalis, water, brine, industrial gases, oils, refrigerants, petroleum and derivatives	-
5	Silver Ag 3N5	750°F	-150°F	(Preferred choice for high temp, low temp, and high pressure applications) 99.95% pure silver (Ag) sheet. Exceptional sealability and use in extreme temperature and pressure applications. Only gasket that can be re-used in certain conditions	Extreme Temperatures and Pressures, Cryogenics, Nuclear, Deep Vacuum, Solvents, Alcohols, Steam, Silicone, Vegetable and Petroleum oils, Fuels	\$\$
Y	Gylon 3510	500°F	-150°F	(Preferred choice for most corrosive applications) PTFE filled with barium sulfate. Good Sealability as well as improved relaxation and cold flow resistance versus PTFE	Strong caustics, hydrocarbons, steam, chlorine, moderate acids, cryogenics, aluminum fluoride	\$\$
T	Virgin PTFE	400°F	-150°F	Polytetrafluoroethylene Resin. Exceptional chemical resistance. Poor cold flow and relaxation properties	Inert to nearly all chemicals	\$
Z	Kalrez	620°F	30°F	High temperature resistant perfluoroelastomer with excellent tensile strength, sealability, and elasticity	Oxidizing and Reactive Chemicals, Steam, Alcohols, Aldehydes, Ethers, Esters, Ketones, Acids and Bases	\$\$
C	Top Chem 2000	450°F	-150°F	PTFE filled with silicone carbide (SiC). Excellent Sealability and improved relaxation resistance over PTFE	Strong acids and alkalines, Steam, Motor fuel and oils, Aromates, Esters, Ketones, Alcohols	\$\$
M	EPDM	200°F	-20°F	Ethylene Propylene Diene Monomer Rubber. Good elasticity, Tensile Strength, and Sealability. Exhibits limited elevated temperature resistance.	Silicone and Vegetable oils, Ketones, Esters, Alkalies, Most Acids, Water	\$
V	Viton	400°F	-10°F	Fluorinated synthetic polymer or fluoroelastomer that contains excellent elasticity, tensile strength, and sealability as well as good medium temperature resistance	Variety of acids and bases, animal and vegetable oils, hydrocarbons	\$
G	Grafoil	750°F	-40°F	Made of pure compressed homogenous graphite flake with a corrosion inhibitor. Contains no binders or resins. Very fragile with very low tensile strength and elasticity	Elevated temperature processes, aggressive and corrosive chemicals, Nuclear	\$
B	Buna-N	200°F	-20°F	Also known as NBR, is a black nitrile synthetic rubber compound with excellent elasticity, tensile strength, and abrasion resistance, but exhibits poor elevated temperature characteristics	Petroleum-Based and Synthetic Oils, Alcohols, Hydraulic Fluids, Fuels, Water, Silicone Greases, Solvents	\$

Re-use: Re-use subject to gasket condition and presence of corrosion or pitting on mating parts. Only recommended for up to three re-use cycles. Re-assembly of the diaphragm seal to be performed per Reotemp standards and procedures to ensure proper seating.

Max Working Pressure: Gasket Selection does not impact the MWP of the configured diaphragm seal.

Process Compatibility: The listed common applications are to be used as a guide only. Actual chemical compatibility of the process with the chosen gasket material should be approved by qualified personnel.