

STANDARD SEALANTS

Sealant Materials	Temperature Range	Type of Material	Sealant Material Features
Neoprene (N)	-40°F to +200°F (-40°C to +93°C)	Synthetic Rubber (nonflammable)	Has resilience of natural rubber, with better resistance to oil, gasoline, ozone, weather and heat. Excellent memory for temperature cycling applications - moderate electrical resistivity--reusable in most cases.
Viton (V)	-10°F to +450°F (-20°C to +232°C)	Fluoroelastomer	Retains mechanical properties at high temperature. Resistant to oils, solvents, fuels, corrosive industrial chemicals. Good electrical properties--reusable in most cases.
Teflon (T)	-300°F to +450°F (-185°C to +232°C)	Tetrofluoroethylene Plastic (Thermoplastic Resin) (nonflammable)	Least permeable to gases. Has natural lubricity--resists adhesion of foreign matter--reusable in most cases.
Lava (L)	-300°F to +1600°F (-185°C to +870°C)	Natural Magnesium Silicate	Low thermal coefficient, good electrical resistivity. Crushes to powdered mass under compression - slightly proous to light gases and steam. NOT RECOMMENDED FOR HIGH VACUUM. Not reusable.
Grafoil (G)	-400°F to +925°F (-240°C to +495°C); +3000°F(+1650°C) in reducing atmosphere	Graphite in foil layers (conductive)	Low vapor pressure, low gas permeability--excellent for vacuum applications. Natural lubricity, electrically conductive. Superior sealing capabilities at +925°F. Not reusable in most cases.



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