



SEAL MATERIALS

The sealing elements are intended to provide an overlapping, impervious barrier through which no contained media or other substance can penetrate. Consequently, the composite backing material behind the seals remains uncontaminated and thus permanently holds the seals in place in a static, encapsulated manner.

TEFLON® (SPRING ENERGIZED)

Recommended for all environments. Helical wound spring provides radial load. Encapsulation in the seal groove eliminates creep or cold flow. This sealing system truly distinguishes the **pikotek** PGE from all other sealing systems.

Temperature range: -250 F to +450 F

NITRILE

General purpose oilfield elastomer. Excellent resistance to aliphatic hydrocarbons, silicone base fluids and glycol based systems.

Not recommended for: Systems containing H₂S, aromatic hydrocarbons, phosphate esters or halogenated hydrocarbons. Piping systems subjected to radical pressure drops (2000 PSI to 0 PSI), or piping systems containing significant partial pressures of polar gases (i.e. CO₂).

Temperature range: -30 F to + 250 F.

VITON®

General purpose oilfield elastomer. Excellent resistance to aliphatic hydrocarbons, glycols and H₂S. Good resistance to aromatic hydrocarbons.

Not recommended for: Systems with amine inhibitors and in piping systems containing significant partial pressures of polar gasses (i.e. CO₂) where radical pressure drops (2000 PSI to 0 PSI) commonly occur.

VITON®: -15 F to +350 F

VITON® GLT: -65 F to +350 F



KALREZ®

This rubber material is the ultimate in chemical resistance. It belongs to a class of elastomers called "perfluorelastomers" meaning that all bond sites on the elastomer backbone and sidechains have a Fluorine atom bonded to it. This lends the chemical resistance of a Teflon to a rubbery-like material. Kalrez® performs excellently in all types of hydrocarbons (aliphatic and aromatic), amine inhibitors, glycols, methanols, H₂S, and all acids.

Not recommended for: Cost effective applications. This material is very expensive, Spring Energized Teflon is most often a better material.

Temperature range: -65 F to +550 F

*Teflon is a registered trademark of DuPont Company.
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