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Kalrez[®] perfluoroelastomer
parts

From DuPont Performance Elastomers

Kalrez[®] of DuPont Performance Elastomers, was created in the 1960's. Perfluoroelastomers exhibit peak performance in high temperature range applications and a broader chemical resistance than any other elastomer. Kalrez[®] has a service temperature up to 327°C and is resistant to more than 1800 chemicals. The first custom Kalrez[®] components were created for use in downhole tools.

Kalrez and the Oil & Gas Industry

Kalrez[®] is the most trusted elastomer for high performance seals. Increasingly strict requirements of the oil & gas industry make Kalrez[®] the elastomer of choice. Kalrez[®] combines the seal force of elastomers with the chemical and high heat resistance of a Teflon[®]. Kalrez[®] features resistance to fuels, additives, lubricating oils and corrosive chemicals. Kalrez[®] seals are capable of performing for extended periods of time without showing signs of degradation. The last place you want to experience seal failure is while your tool is deep within the ground.

Kalrez[®] is field proven with applications such as:

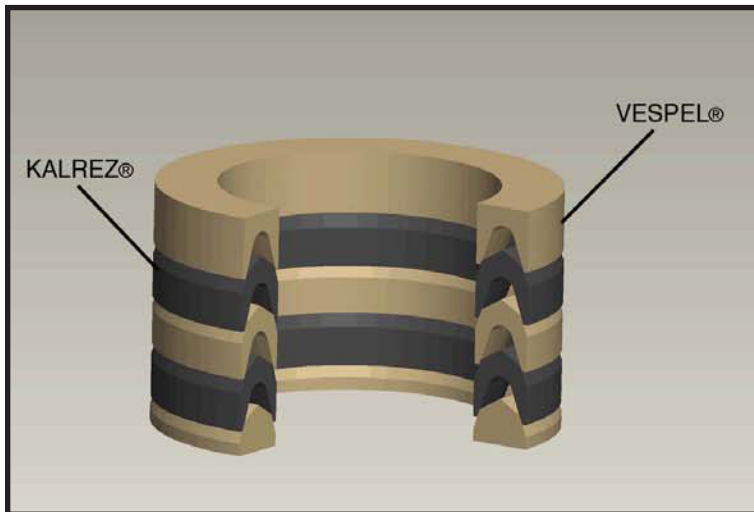
- Tubing-to-packer seals
- Subsurface safety valves
- Logging boots
- Casing tie-back seals
- Survey tool seals
- Slip-joint seals

Industry leading equipment manufacturers, such as Schlumberger, have been trusting Kalrez[®] for nearly three decades.



Kalrez® 2085

Over the decades since its creation, Kalrez® has expanded into specific compounds suited for various industries. The Kalrez® 2085 compound is specially designed with a carbon-black fill suited for select oil and gas applications. What makes this compound more suitable to other FFKM compounds is its excellent resistance to downhole issues such as, rapid gas decompression, drill fluids, sour gas, methanol and biocides. The recommended maximum continuous service temperature for Kalrez® 2085 is 210°C.



(Kalrez®/Vespel® vee packing set)

Part Creation

Kalrez® is the only material that DuPont Performance Elastomers creates from compound and into final production. DuPont Performance Elastomers is dedicated to continually perfecting seal design and performance. Kalrez® products are best known for the success with vee packing. Used in over 2,000 wells, the track record shows no failures over a six year period of time ("Kalrez® Seals... A Lot Less Expensive than the Cost of Downhole Seal Failure". DuPont Performance Elastomers, 2005).

DuPont P.E. is capable of creating Kalrez® components in the shapes such as:

- O-rings (AS-568, metric and JIS)
- Customized O-rings in various cross-sections and diameters
- Valve seats
- Diaphragms
- Gaskets
- Packer sets
- T-seals
- Column fitting
- Kalrez® to metal bonding
- And custom shapes

Contact a Hi-Tech Seals sales representative to identify which oil & gas sealing components would be most suited for a Kalrez® compound.



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