

DHP

Redress Kits

Application

A variety of materials are available for use in O-Rings. The oil field industry has relied on 4 common materials. HNBR (Nitrile), Viton, Aflas, and FFKM (Chemraz, Kalraz, Perflas) are all common trade names for popular oil field elastomers.

Generally, as you move from HNBR to FFKM you gain chemical resistance and cost, but lose mechanical strength.

Features

- Hydrogenated Nitrile (HNBR. HSN) = Nitrile is a low-temperature performer with limited chemical resistance. Superior mechanical characteristics, particularly high strength helps reduce extrusion and wear. Do not use with ketones, esthers, strong acids, or chlorinated hydrocarbons.
- Fluorocarbon (FKM) Viton = Has an excellent resistance to high temperatures, ozone, oxygen, mineral oil, synthetic hydraulic fluids, fuels, aromatics and many organic solvents and chemicals. Low-temperature resistance is generally not favorable. Do not use with glycol, organic acids, or steam.
- Tetrafluoroethylene-Propylene (TFE) Aflas = This elastomer has an excellent chemical resistance across a wide range of aggressive media. Do not use with aromatics, ketones, or chlorides.
- Perfluoroelastomer (FFKM) Chemraz = Perfluoroelastomer (FFKM) currently offers the highest operating temperature range, the most comprehensive chemical compatibility, and the lowest off-gassing and extractable levels of any rubber material.



Memory Tool - Redress Kit

Product	Material	Part No.
3/4" Quartz DXB, 1" Quartz 3/4" Piezo (Standard, Accelerometer)	Viton 90	100445
	Alfas 718 2B	100446
	Chemraz 510	100447
1-1/4" Quartz 1-1/4" Burst	Viton 90	100908
	Alfas 718 2B	100237
	Chemraz 510	100238
1-1/4" Piezo (Standard, Welded III, RTD)	Viton 90	100911
	Alfas 718 2B	101002
	Chemraz 510	101003
1-3/8" Welded Piezo	Viton 90	101372
	Alfas 718 2B	101373
	Chemraz 510	101374
Geothermal	Viton 90	101672
	Alfas 718 2B	101673
	Chemraz 510	101674
1-1/4" Quartz DXB II	Viton 90	101693
	Alfas 718 2B	101694
	Chemraz 510	101685

Quick Shut In Tool - Redress Kit

Product	Material	Part No.
2-3/8" Quick Shut In Tool	Viton 90	100190
	Alfas 718 2B	100191
	Chemraz 510	100192
1-1/4" Quartz 1-1/4" Burst	Viton 90	100223
	Alfas 718 2B	100224
	Chemraz 510	100225
1-1/4" Piezo (Standard, Welded III, RTD)	Viton 90	102444
	Alfas 718 2B	102445
	Chemraz 510	102446

Material Properties

Property	Viton	Aflas	Chemraz
Low Temp Duty	-10°C	30°C	0°C
High Temp Duty	200°C	220°C	230°C
Carbon Dioxide	Fair	Good	Good
H2S	Poor	Fair	Good
Tear/Abrasion Resistance	Good	Fair	Fair
Compression Set Resistance	Good	Fair	Poor

