

O-ring Assembly

second o-ring
first o-ring



Slimline Gauge		Type	Size
5.000 psi or less	First O-ring	Viton-75	2-014
	Second O-ring	Aflas	2-014
10.000 psi or more	First O-ring	Viton-90	2-014
	Second O-ring	Aflas	2-014

second o-ring
first o-ring



This information is provided to inform the customer on the type and size of o-ring that is provided by Canada Tech for normal operating conditions. Proper o-ring selection should be determined based upon actual Well conditions. Please see elastomers properties table on page 3.

Shortline Gauge		Type	Size
5.000 psi or less	First O-ring	Viton-75	2-212
	Second O-ring	Aflas	2-212
10.000 psi or more	First O-ring	Viton-90	2-212
	Second O-ring	Aflas	2-212



O-ring Assembly



Pilot Gauge		Type	Size
5.000 psi or less	O-ring	Viton-75	2-016
	Back-up seal	PEEK	2-016
10.000 psi or more	O-ring	Viton-90	2-016
	Back-up seal	PEEK	2-016



Pilot Gauge Carrier		Type	Size
5.000 psi or less	First O-ring	Viton-75	2-212
	Second Oring	Aflas	2-212
10.000 psi or more	First O-ring	Viton-90	2-212
	Second O-ring	Aflas	2-212

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Properties of elastomers in oil and gas field fluid sealing applications*

Property	Elastomeric Sealing Materials			
Material Code	HNBR	FKM	TFEP	FFKM
Chemical Nature	Hydrogenated Nitrile	VF2 Fluoro elastomer	TFE/P Fluoro elastomer	Perfluoro elastomer
Common trade name	HSN	Viton	Aflas	Chemraz
ASTM D2000	CH	HK	HK	HK
Low Temp duty (°C)	-20	-10	30	0
High temp duty (°C)	150	200	220	230
Aliphatic Hydrocarbons	Good	Good	Fair	Good
Aromatic Hydrocarbons	Fair	Good	Fair	Good
Crude Oil at <120 °C	Good	Good	Fair	Good
Crude Oil at >120 °C	Fair	Fair	Fair	Good
Sour crude oil	Good	Fair	Fair	Fair
Sour natural gas	Good	Fair	Fair	Fair
Oil base mud	Good	Good	Fair	Good
Water base mud	Fair	Good	Good	Good
Water	Good	Fair	Good	Good
Steam	Fair	Poor	Good	Good
Amino corrosion inhibitors	Fair	Fair	Good	Good
Brines: CaCl ₂ /CaBr ₂	Good	Good	Good	Good
ZnBr ₂	Fair	Good	Good	Good
Sea water	Good	Good	Good	Good
Control fluids: Mineral Oils	Good	Good	Fair	Good
Glycol based	Good	Good	Good	Good
Phosphate ester	Poor	Good	Good	Good
Methanol	Good	Fair	Good	Good
Acids: HCL Acid (dill)	Fair	Good	Good	Good
HCL Acid (conc)	Poor	Good	Good	Good
HF Acid (<65% cold)	Fair	Good	Good	Good
Chlorinated solvents	Fair	Good	Poor	Good
Methane	Good	Good	Fair	Good
Carbon dioxide	Good	Fair	Good	Good
H ₂ S at < 80°C <100ppm	Good	Good	Good	Good
H ₂ S at >150°C <15%	Poor	Fair	Fair	Good
Physical Properties				
Tear Resistance	Good	Good	Fair	Fair
Abrasion Resistance	Good	Good	Fair	Fair
Compression Set Resistance	Good	Good	Fair	Poor
Resilience	Fair	Poor	Poor	Poor
Gas Impermeability	Good	V. Good	Good	V. Good

*Reference from A.R. Thomson Group Properties of elastomers and plastics in oil gas field fluid sealing applications