

FKM 90 Compound 514532



ERIKS' 514532 is a high performance grade FKM Ter-polymer with excellent fluid and oil/fuel/solvent resistance. Specially designed for extreme low temperature, high pressure down hole applications (EAD or RGD grade).

Description

Chemical composition: Ter-polymer of Tetrafluoroethylene, vinylidene fluoride and hexafluoropropylene

Physical form: O-rings

Colour: Black

Temperature resistance: -50°C to +200°C

Application

- Down hole
- High pressure
- Rapid gas decompression (RGD or EAD grade)
- Extreme low temperatures

Compliances

- NORSOK M710
- NACE TM0187
- ADI free
- REACH
- RoHS

Additional information

- Exceptional low temperature performance
- Excellent resistance to hydrocarbons and coolants

Please consult our [Chemical Resistance Guide](#) for more information on this compound.



Table 1: Physical properties

Property	Test standard	Value	Unit
Hardness	ASTM D2240	88±5	Shore A
Elongation at break	ASTM D412	130	%
Tensile strength	ASTM D412	14	MPa
Compression set – 70 hours at 200°C	ASTM D395		
Slab		30	%
Low Temperature resistance TR10	ASTM D1329	-46	°C

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 168 hours at 200°C	ASTM D573		
Hardness change		+2	Shore A
Elongation at break change		-18	%
Tensile strength change		-23	%
Immersion in ASTM Fuel C – 70 hours at 23°C	ASTM D471		
Hardness change		-7.5	Shore A
Elongation at break change		-18	%
Tensile strength change		-23	%
Volume change		+6	%