

FKM 90 Compound 514531



ERIKS' 514531 is a high performance grade FKM Ter-polymer with excellent fluid and oil/fuel/solvent resistance. Specially designed for 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, moulded parts

Colour: Black

Temperature resistance: -40°C to +200°C

Application

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

Compliances

- NORSOK M710
- NACE TM0297
- NACE TM0187
- TOTAL GS EP PVV 142
- ADI
- REACH
- RoHS

Additional information

- Very good 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	91±5	Shore A
Elongation at break	ASTM D412	140	%
Tensile strength	ASTM D412	19	MPa
Compression set – 70 hours at 200°C Slab	ASTM D395	25	%
Low temperature resistance TR10	ASTM D1329	-30	°C

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 168 hours at 200°C	ASTM D573		
Hardness change		+3.5	Shore A
Elongation at break change		-24.5	%
Tensile strength change		-13	%
Immersion in ASTM Fuel C – 168 hours at 23°C	ASTM D471		
Hardness change		-5.5	Shore A
Volume change		+6.5	%