

## FKM 90 Compound 514530



ERIKS' 514530 is a high performance grade FKM ter-polymer with excellent fluid and oil/fuel/solvent resistance. Specially designed for 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:** -27°C to +230°C

### Application

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

### Compliances

- NORSOK M710
- NACE TM0297
- NACE TM0187
- TOTAL GS EP PVV 142
- Shell Research Ltd. Test Rig
- ADI
- REACH
- RoHS

### Additional information

- 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	Shore A
Elongation at break	ASTM D412	110	%
Tensile strength	ASTM D412	16	MPa
100% Modulus	ASTM D412	16	MPa
<b>Compression set</b> – 70 hours at 200°C Slab	ASTM D395	15	%
Low temperature resistance TR10	ASTM D1329	-17	°C

Table 2: Ageing properties

Property	Test standard	Value	Unit
<b>Heat ageing</b> – 168 hours at 250°C	ASTM D573		
Hardness change		+3	Shore A
Elongation at break change		-15	%
Tensile strength change		-15	%
<b>Immersion in ASTM Fuel C</b> – 70 hours at 23°C	ASTM D471		
Hardness change		-3	Shore A
Elongation at break change		-10	%
Tensile strength change		-20	%
Volume change		+4	%

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