KIFK10 ISM FKM 90 GLT AED -30°C

ISM COMPOUNDS
A PRODUCT OF INDUSTRIAL SPARES MANUFACTURING AND TRADING CO

Product description:

KIFK10 ISM FKM 90 GLT AED -30°C is an fluorocarbon elastomer of specialty group terpolymer, specifically crafted for the resistance of ANTI EXPLOSIVE DECOMPRESSION at low temperatures (GLT) and is certified to the NORSOK M-710 Rev 3 Standard. The condition is the internal failure of products due to sudden release of pressure which causes the trapped air in products to expand and cause damage.

Chemistry:

The compound improves the dynamic mechanical properties including equi-biaxial stress strain characteristics which prevent the absorbed gas expansion with improved resistance to chain mobility.

Properties:

Improved low temperature properties. Lower volumetric swell and higher resistance to wide range of fluids under pressure. The compound offers resistant to combinational fluids which has severe effect on general purpose elastomers and extreme pressure ranges

Applications:

In places of high pressure gas/fluid combinations and balanced properties of fluid exposure resistivity, high gas pressure and extreme low temperature withstanding abilities are needed

Service temperature:

-30 °C to 204 °C

Product ranges:

O ring Seals, Backup rings.

Physical properties:

S.NO	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	90 ± 5
II	Density	D792	gm/cc	1.83±0.05
III	Tensile Strength (Min)	D412	MPa	14
IV	100% Modulus (Min)	D412	Mpa	7
V	Elongation @ break (Min)	D412	%	120
VI	Compression Set (Max) 22hrs@200°C Compression Set (Max) 70hrs@200°C	D395 Method B	% %	25 35
VII	Heat Aging 70hrs @250°C Hardness Change (Max) Tensile Change (Max) Elongation Change (Max)	D573	 Shore A % %	 +5 -20 -30
VIII	ASTM : 1 Oil Ageing 70hrs@ 150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	 Shore A % % %	 ±5 -20 -25 +3
IX	ASTM : 3 Oil Ageing 70hrs@ 150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	 Shore A % % %	 ±5 -25 -25 +10

NOTE The above compound meets As per ASTM D 2000 M2 HK 914 A1-10 B37 B38

The technical datasheets are derived on the basis of the service conditions and end user preference in which the values derived are given over a range of specifications which are cross checked over a variety of trials and approved with the end user conditions and calculated over a prolonged time

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Industrial Spares Manufacturing and Trading Co.
No 66 & 77, Perungudi industrial estate,
Perungudi, Chennai – 600096
Tamilnadu, India
Ph: 24961147