

# KIFK09 ISM FKM 75 GLT -30°C

ISM COMPOUNDS

A PRODUCT OF INDUSTRIAL SPARES MANUFACTURING AND TRADING CO

## Product description:

KIFK09 ISM FKM 75 GLT -30°C is an fluorocarbon elastomer of specialty group terpolymer, specifically crafted for the resistance at low temperatures upto -30°C.

## Chemistry:

This is a terpolymer made from vinylidene fluoride, tetrafluoroethylene and perfluoromethylvinylether and is peroxide curable.

## 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-rings.

## Physical properties:

S.No	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	75 ± 5
II	Density	D792	gm/cc	1.80±0.05
III	Tensile Strength (Min)	D412	MPa	14
IV	100% Modulus (Min)	D412	MPa	4
V	Elongation @ break (Min)	D412	%	175
VI	Compression Set (Max) 22hrs@200°C	D395 Method B	%	15
	Compression Set (Max) 70hrs@200°C		%	25
VII	Heat Aging 70hrs @250°C Hardness Change (Max) Tensile Change (Max) Elongation Change (Max)	D573	Shore A	+ 5
			%	- 25
			%	- 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
			%	+ 3

**Note : The above compound meets as per ASTM D2000 M6 HK 714 A1-10 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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