

## Product description:

KINB17 LT ISM HNBR -46°C is a hydrogenated butadiene acrylonitrile copolymer designed primarily for dynamic applications requiring excellent resistance to heat, ozone and non polar hydrocarbon fluids. This is a peroxide cured system to withstand improved resistance to heat and compression set. This is compound is specifically crafted for Extreme Low temperature applications.

## Chemistry:

The compound shows higher strength, greater resistance to swelling by hydrocarbon oils, and lower permeability to gases. Hydrogenation reduces the reactive activity of butadiene unsaturation with environment.

## Properties:

Good mechanical strength at elevated temperatures and oil resistance compared to general purpose nitrile elastomers. Better ozone due to the saturation and Excellent Low Temperature Properties.

## Applications:

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

## Service temperature:

-46 °C to 160 °C

## Product ranges:

O-Ring seals, Backup rings.

## Physical properties:

S.No	Physical Properties	Test Method	Specification
I	Hardness Shore A	ASTM D 2240	90±5
II	Tensile Strength, MPa (Min)	ASTM D 412	12
III	Elongation At Break % (Min)		100
IV	Compression Set 22hrs @ 150°C,% Max Compression Set 70hrs @ 150°C,% Max	ASTM D 395 Method B	30
V	Heat Ageing ( 70hrs@150°C )		
	Hardness change Shore A	ASTM D 573	± 15
	Tensile change % (Max)		± 30
	Elongation change% (Max)		- 50
VI	Oil ageing resistance ASTM OIL No.1 ( 70hrs@150°C )		
	Hardness change Shore A	ASTM D 471	-5 / +10
	Tensile change % (Max)		-20
	Elongation change% (Max)		-30
	Volume change %		± 5
VII	Oil ageing resistance ASTM OIL No.3 ( 70hrs@150°C )		
	Hardness change Shore A	ASTM D 471	-15
	Tensile change % (Max)		-45
	Elongation change% (Max)		-45
	Volume change %		+ 35

**NOTE: The Above Compound Meets As Per ASTM D2000 M2 DH 910 A26 B16 B36 EO16 EO36.**

*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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