



CERULEAN N 12 (KINB12) is a Co polymer NBR Specially compounded for Excellent Compression Set & Oil Resistance Applications.

Material Data

S.No	Description	ASTM Test Method	Unit	Spec
1.	Hardness	D 2240	Shore A	60±5
2.	Tensile Strength	D 412	MPa	13.8 (Min)
3.	Extension Modulus @ 100% Elongation	D 412	MPa	1.7 (Min)
4.	Elongation @ break	D 412	%	300 (Min)
5.	Low Temperature Brittleness, 5hrs@ -40°C	D736	-	Pass
6.	Compression Set, 70hrs@100°C (Plied Discs)	D395 Method B	%	20 (Max)
7.	Compression Set on O Ring, 25% Compression, 70hrs@100°C, 3.81 mm or less C/S	D1414	%	30 (Max)
8.	Compression Set on O Ring, 25% Compression, 70hrs@100°C, 3.84-5.08 mm C/S	D1414	%	25 (Max)
9.	Compression Set on O Ring, 25% Compression, 70hrs@100°C, 5.11-7.24 mm C/S	D1414	%	20 (Max)

Features & Benefits

Higher resistance to wide range of oil application

Excellent Resistance to hydrocarbon solvents

Good Resistance to Chemicals

Operating temperatures ranging from -40°C to +125°C

Applications

Hoses

Pumps

Oil Seals

Cable wires

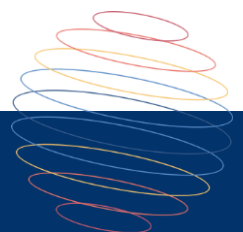
Product Range

O rings

Square O rings

X ring

Custom Molded parts





S.No	Description	ASTM Test Method	Unit	Spec
10.	Compression Set on O Ring, 25% Compression, 70hrs@100°C, Over 7.24 mm C/S	D1414	%	20 (Max)
11.	Air Oven Ageing, 70hrs@100°C Hardness Change Tensile Change Elongation Change Surface Condition	D573	Pts. % % -	0 to +10 -25 (Max) -30 (Max) No Cracks
12.	Oil Immersion, 70hrs @100°C in IRM 901 Oil Hardness Change Tensile Change Elongation Change Surface Condition	D471	Pts. % % %	-5 to +10 -25 (Max) -35 (Max) -1 to +15
13.	Oil Immersion, 70hrs@100°C in IRM 903 Oil Hardness Change Tensile Change Elongation Change Surface Condition	D471	Pts. % % %	-15 to +5 -50 (Max) -50 (Max) 0 to +35
14.	Distilled Water Immersion, 70hrs@100°C Hardness Change Volume Change	D471	Pts. %	-10 to +10 0 to +15
15.	50% Methyl Alcohol in Water Immersion, 70hrs@Boiling Point Hardness Change Volume Change	D471	Pts. %	-10 to +10 0 to +15
16.	Stock Identification	D297	-	NBR

Note: This information is to the best of our knowledge, accurate and reliable and it does not necessarily indicate the end product performance. Hence, it is the customer's responsibility to evaluate the parts prior to use, especially in applications where the failure may result in injury and or damage.

