

# M SEALS NBR-B95

## Hard Grade 95A Nitrile Rubber

### MATERIAL DATA SHEET (Version 6.0 – 05.2022)



#### Description

NBR-B95 is a general purpose 95a Shore Nitrile Butadiene Rubber (NBR95), commonly referred to as NBR, Nitrile or BUNA-N. Due to the increased hardness of this material, it is a good choice for applications where softer materials may suffer from extrusion or where increased pressure capability may be required. The increased hardness of this material reduces its flexibility, possibly making installation more, we recommend taking care when choosing this material.

Good physical characteristics and chemical resistance to the most common hydraulic industry fluids such as Mineral Oils, HFA, HFB and HFC make NBR-B95 a suitable seal material in many industrial applications.

Care should be taken when using Nitrile in water or water-based fluids at elevated temperatures above +40°C, in some instances base ingredients within the fluid can become aggressive and cause material degradation.

Talk to our technical team if you require further advice.

#### Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 1183-1	g/cm <sup>3</sup>	1.25
Hardness @ 23°C	ISO 7619-1	Shore A	95 (+/-5)
Tensile strength	DIN 53504	N/mm <sup>2</sup>	21.2
Elongation at break	DIN 53504	%	56.8
Tear resistance	ISO 34-1 B	N/mm	16.2
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	10.6
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	9.8
Minimum service temperature		°C	-25
Maximum service temperature		°C	+100

#### Main Characteristics

- Good fluid resistance
- Good tear strength
- Good physical properties
- Useful temperature range
- Good pressure resistance

#### Typical Products

- Energised U-Seals / U-Rings
- Static face seals
- Wiper seals
- O-Rings
- Bespoke parts

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