

M SEALS NBR-W85

White General purpose 85A Nitrile Rubber



MATERIAL DATA SHEET (Version 6.0 – 05.2022)

Description

NBR-W85 is a general purpose 85a Shore Nitrile Butadiene Rubber (NBR85), commonly referred to as NBR, Nitrile or BUNA-N. The material has been coloured white for easier identification and to help prevent possible cross contamination with other grades of material that are the standard black colour.

Good physical characteristics and resistance to the most common hydraulic industry fluids such as Mineral Oils, HFA, HFB and HFC make NBR-W85 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.

M Seals NC500 Nitrile elastomer is NOT approved for contact with food.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 1183-1	g/cm ³	1.44
Hardness @ 23°C	ISO 868	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	MPa	≥15
100% Modulus	DIN 53504	MPa	≥8
Elongation at break	DIN 53504	%	≥200
Compression set (24 Hours @ 70°C, 25%)	ISO 815	%	≤7
Compression set (24 Hours @ 100°C, 25%)	ISO 815	%	≤9
Minimum service temperature		°C	-30
Maximum service temperature		°C	+100

Main Characteristics

- White in colour to avoid cross contamination of materials
- Good compression set resistance
- Good physical properties
- Good elastic properties
- Useful temperature range

Typical Products

- U-Seals / U-Rings
- T-Seals
- Wiper seals
- O-Rings
- Bespoke parts