

M SEALS NBR-MD89

Metal detectable FDA compliant NBR

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Compliant



ADI FREE



Metal Detectable



NUT FREE

Description

M Seals material NBR-MD89 is a metal detectable Nitrile Butadiene Rubber (NBR) which is compliant with FDA 21 CFR 177.2600 regulations. This fantastic attribute makes NBR-MD89 a good choice for seals and other elastomeric parts which require fair chemical and/or fluid compatibility while working in food and beverage applications where contamination is unacceptable.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Blue
Density	ISO 1183	g/cm ³	1.69
Hardness	ISO 7619-1	Shore A	89 (+/-5)
Tensile Strength	DIN 53504	MPa	5.2
Elongation at break	DIN 53504	%	317
Compression set (70 Hours @ 23°C)	ISO 815-1	%	30.4
Compression set (22 Hours @ 70°C)	ISO 815-1	%	38.3
Compression set (22Hours @ 100°C)	ISO 815-1	%	49.5
Minimum service temperature		°C	-30
Maximum service temperature		°C	+100

Main Characteristics

- Metal detectable
- CFR 177.2600 FDA ingredient compliant
- No tooling required
- Blue in colour
- ADI free
- Does not contain ingredients derived from nuts

Typical Products

- Triclover seals
- RJT seals
- DIN 11851 D-Seals
- Static Seals & O-Rings
- Depositor seals
- Butterfly valve seals

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.