

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 (22 Hours @ 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