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# HNBR detectable

Hydrogenated acrylonitrile-butadiene-rubber, metal detectable

Standard colour: **Blue**

- Food compliant HNBR: approval acc. FDA, recommended for approval acc. **EU1935/2004** metal detectable
- Resistant to mineral oil, HFC, cold water,
- Applicable for Rod and Piston seals, Wiper seals, Rotary seals and Static seals.

Properties	Unit	Test method	Value
Hardness	Shore A	DIN ISO 7619-1	78± 5
Density	g/cm <sup>3</sup>	DIN EN ISO 1183-1	1.36
Compression set 23°C/70h	%	DIN ISO 815-1	24
Compression set 70°C/22h	%	DIN ISO 815-1	30
Compression set 125°C/24h	%	DIN ISO 815-1	29
Elongation at break	%	DIN53504	270
Tensile strength	MPa	DIN53504	8.1
Tear resistance	N/mm	DIN ISO 34-1A	5.0
100% Modulus	MPa	DIN53504	4.2
Rebound resilience	%	DIN53512	35
Abrasion	mm <sup>3</sup>	DIN53516	372
Min. service temperature	°C		-35
Max. service temperature	°C		+150

#### Confirmation according to FDA

All single components used for the compound named HNBR Detectable are listed on Code of Federal Regulations of U.S Food and Drug Administration (FDA), Rockville MD. They are mentioned under the following subchapters: **21CFR 177.2600**

#### Confirmation according to EU1935/2004

The confirmation according to FDA mentioned above provides an approval according to **EU1935/2004**. Due to unavoidable technical factors or due to the form of delivery of the elastomeric pre-materials traces of non-specified impurities could be included. A compulsory test should be applied to the final product.

Allowed for contact with foods. Not permitted for medical articles (implants)

We explicitly point out that the user themselves have to undertake tests, which will reassure the adequacy of the material mentioned above for the use in pharmaceutical and medical applications.

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered, and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.