

# FDA-HNBR

## GENERAL INFORMATION

WCR FDA - HNBR is peroxide cured Hydrogenated Nitrile Rubber, specially developed for high temperature food applications. The material properties are very close to the IND-HNBR with only slightly lower maximum heat and less resistance to sulphides.

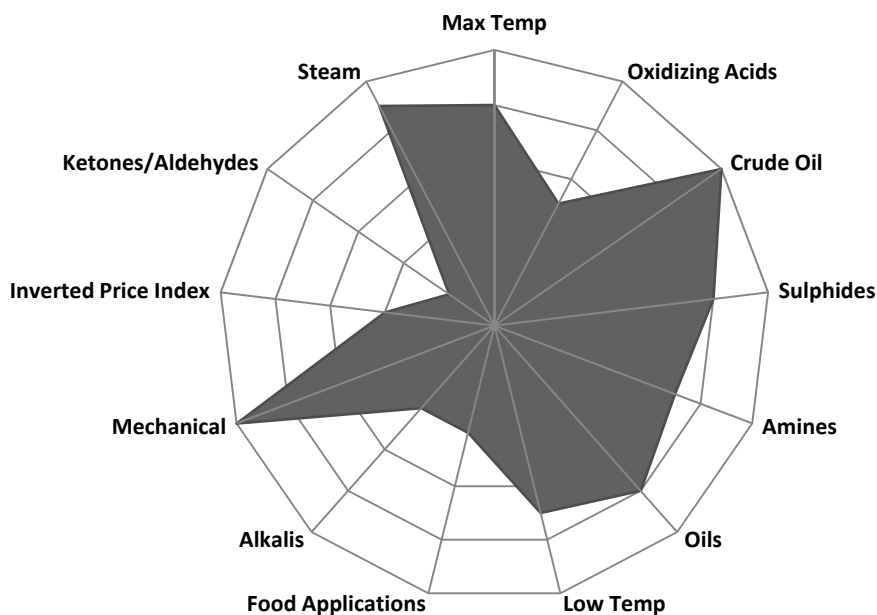
## TYPICAL APPLICATIONS

- High temperature “fatty” food applications
- Good replacement for FDA-NBR, where temperature is too high for NBR

## TYPICAL PROPERTIES

- Hardness 80 Shore A
- Tensile Strength 21 MPa
- Elongation at break 200%.
- Maximum continuous temperature: 150°C
- FOOD use approved

PROPERTIES OVERVIEW



Notes: The greater distance from the middle, the better.

This is a general overview, in relation to other materials. For specific applications please contact WCR or WCR agents for advice.

# MATERIAL SAFETY DATA SHEET (MSDS)



**PRODUCT:** WCR FDA-HNBR gaskets Edition 2008, Rev. 1

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

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Trade name: WCR FDA-HNBR Article numbers: 6<sup>th</sup> & 7<sup>th</sup> digit = 10 (x x x x x 10)

Color Identification: Black rubber gasket with one white and one yellow dot.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS.

Composition: Hydrogenated Acrylonitrile-Butadiene rubber, carbon black, softener, curatives, and antioxidants and processing aids.

## 3. HAZARD IDENTIFICATION

General Information: Non-labeled product according to US/EU-regulations

Special attention should be paid to the following areas:

- \* Particles can cause damage or irritation on the eye surface.
- \* Sensitive persons can obtain skin irritation by unprotected handling of the product

## 4. FIRST-AID MEASURES

Emergency first aid procedures: Eye contact: Flush with water, consult physician. Skin contact: Wash with soap and water. Ingestion: As with swallowing any foreign substance, consult physician.

## 5. FIRE FIGHTING MEASURES

The material consists of organic raw materials known to be flammable.

In case of fire, follow the instructions given by appropriate fire fighting authorities.

Flammable/Combustible: Yes, at very high temperatures far above 200 °C, in presence of an ignition source.

Extinguishing Media: Water spray, high expansion foam or powder.

Special firefighting instructions: Treat as hydrocarbon fire.

Main hazardous combustion products: Carbon dioxide, carbon monoxide, nitrogen oxides, hydrocarbons (alcohols, aldehydes, ketones)

## 6. ACCIDENTAL RELEASE MEASURES

Waste disposal methods: Dispose of in accordance with local, state and federal regulations

## 7. HANDLING AND STORAGE

Treat as normal rubber products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Only when buffing or at temperatures above 100 °C.

Protective gloves: Not normally required at normal use (unless person is especially sensitive to the product)

Eye protection: As required

Hygienic work practices: Industrial hygiene and safety practices should be observed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Odor: Very low

Appearance: Black material with no color coding

Specific gravity: 1,15-1,25 g/ml

Free monomers: Traces

Melting point: Not applicable

## 10. STABILITY AND REACTIVITY

Chemical stable: Yes

Hazardous polymerization: Will not occur

**11. TOXICOLOGICAL INFORMATION:** Could cause skin irritation, or allergy, for some very sensitive persons.

**12. ECOLOGICAL INFORMATION:** General Information: The products are very resistant to biodegradability, and not known to be eco-toxic.

**13. DISPOSAL CONSIDERATIONS:** The products may be disposed as land filling, or be burned like other rubber or plastic products.

**14. TRANSPORT INFORMATION:** No special precautions are necessary when transporting the product.

**15. REGULATORY INFORMATION:** No labels are needed. See local and federal regulations.

**16. OTHER INFORMATION:** The product is cured rubber. When exposed to higher temperatures, the lifetime of the product will decrease.