



# FDA - HNBR

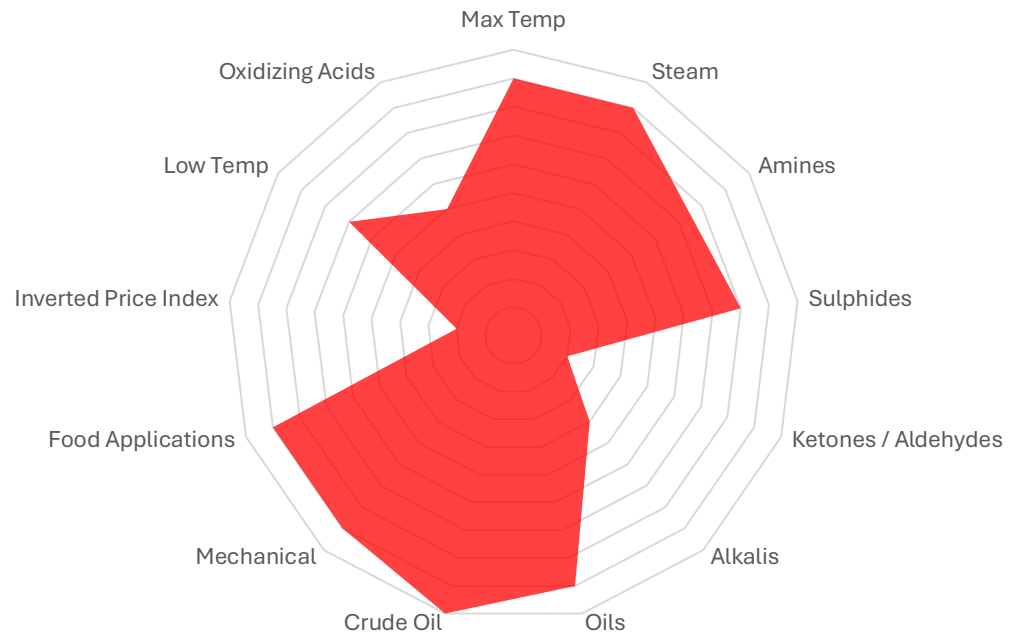
PHE FDA-HNBR is peroxide cured Hydrogenated Nitrile Rubber, specially developed for crude oil PHE applications, where the demands for resistance towards the combination of oil, sulphides and amines are the highest. PHE FDA-HNBR all fills the temperature gap between NBR and Viton™ (FKM) for most oil applications.

## Typical Applications

Water, Oil, and Steam Applications  
Mining  
High Temperature Oil

## Properties

Hardness 80 Shore A  
Tensile Strength 18 MPa  
200% Elongation at Break  
Max Continuous Temp 165°C  
Min Continuous Temp -15°C



**Note: The greater the distance from center, the better the suited the material is for against the application. This is a generalized overview. For specific applications, please contact PHE Gaskets for consult. VITON™ is a registered trademark of The Chemours Company.**

# MATERIAL DATA SHEET (MDS)

PRODUCT: PHE FDA-HNBR gaskets Edition 2026, Rev.1

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Issued by: Bailey French, PHE Gaskets Incorporated, Knoxville, Tennessee 37917

Country: USA

Phone no: +1 (865) 249-7773

E-mail address: bfrench@p hegaskets.com

Trade name: PHE FDA-HNBR Article numbers: 6th and 7th digit = 05 (x x x x x 05)

Color Identification: Black rubber gasket with one blue and one red 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 firefighting 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 two green dots Specific gravity: 1.59-1.61 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.