



# High Temperature FDA-EPDM

## GENERAL INFORMATION

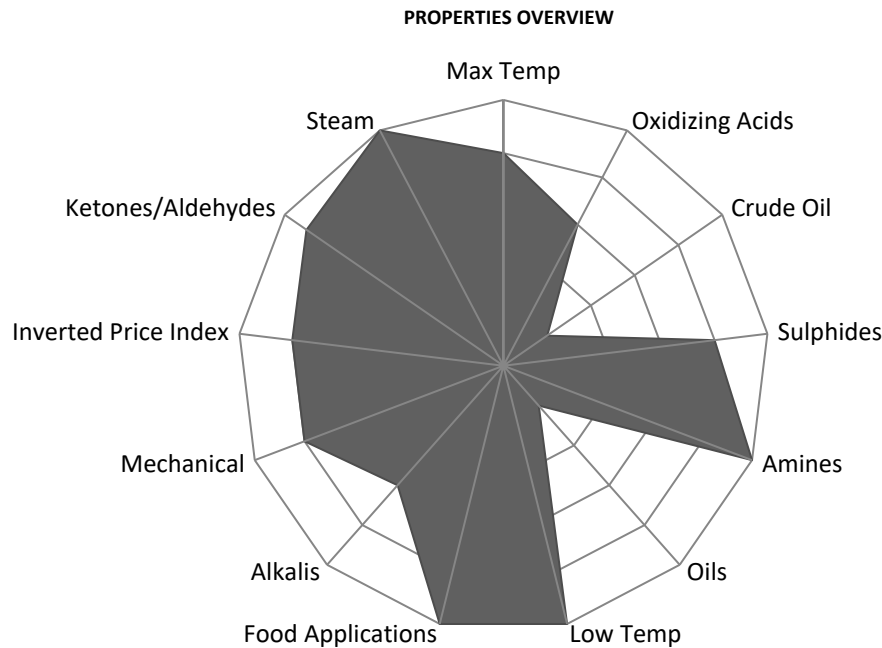
WCR HT FDA – EPDM is a peroxide cured ethylene-Propylene polymer (EPDM) for (food) applications requiring FDA approval. Good resistance to steam. It is compounded to the requirements of FDA section 177.2600 (e & f) for rubber materials in food contact & EC 1935/2004.

## TYPICAL APPLICATIONS

- Water and steam applications
- Food (FDA) applications in accordance with CFR 177.2600
- Excellent performance in severe district heating applications
- Beer Wort & Corn Mash
- Alkaline applications

## TYPICAL PROPERTIES

- Hardness 76 Shore A
- Tensile Strength 16 MPa
- Elongation at break 200%
- Maximum continuous temperature: 165°C (329°F)
- Minimum continuous temperature: -35°C (-31°F)
- FOOD use approved



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 DATA SHEET (MDS)

**PRODUCT: WCR FDA-EPDM gaskets Edition 2018 Rev.0**

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Issued by: Steve Cokonougher, WCR Incorporated, Washington C.H., Ohio 43160  
Country: USA  
Phone no: +1 (740) 333-3448  
Fax no: +1 (740) 333-3452  
E-mail address: [scokonougher@wcrhx.com](mailto:scokonougher@wcrhx.com)  
Trade name: WCR HT FDA-EPDM Article numbers: 6<sup>th</sup> & 7<sup>th</sup> digit = 75 (x x x x x 75)  
Color Identification: Black rubber gasket with one purple dot.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS.

Composition: Peroxide Cured (FDA-Approved) EPDM, 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: Not required

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 purple color code

Specific gravity: 1.12-1.16 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.