



# VITON™ G

## GENERAL INFORMATION

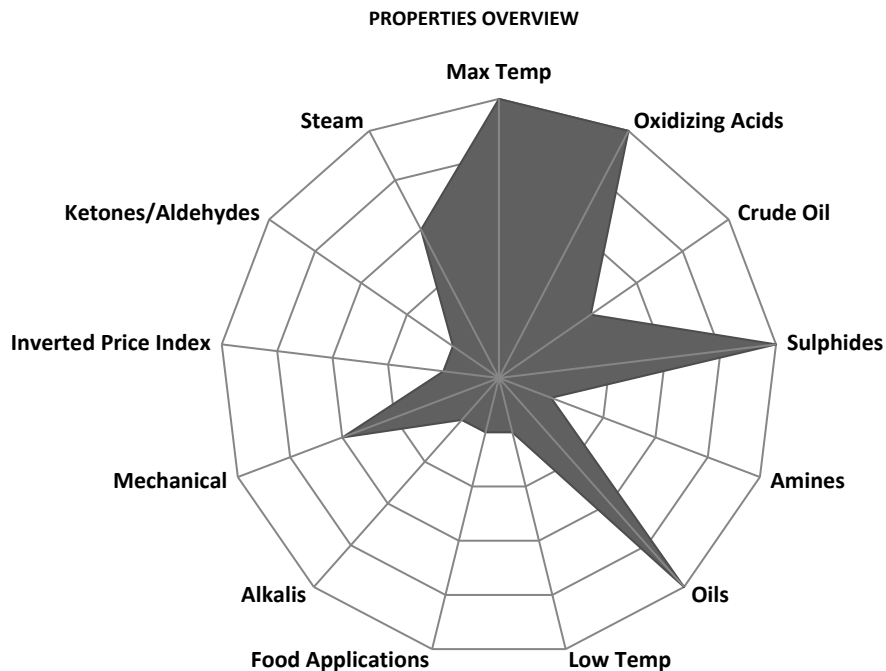
WCR Viton™ G is a peroxide cured Fluorocarbon Rubber (FKM), comprised of Viton™ GF-S polymer. It has excellent resistance towards concentrated acids, surpassing VITON™ B.

## TYPICAL APPLICATIONS

- High temperature oil applications.
- Concentrated inorganic acids (concentrated sulphuric acid up to 125° Celsius).
- Steam up to 200°C, with minor (short term) excursions to 250°C

## TYPICAL PROPERTIES

- Hardness 80 Shore A
- Tensile Strength 15 MPa
- Elongation at break 180%.
- Maximum continuous temperature: 200°C (392°F), with short term excursions to 250°C (482°F)
- Minimum continuous temperature: -5°C (23°F)



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 VITON™ G gaskets Edition 2018, Rev.0**

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

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Trade name: WCR VITON G® Article numbers: 6<sup>th</sup> and 7<sup>th</sup> digit = 21 (x x x x 21)

Color Identification: Black rubber gasket with one orange dot.

## 2. HAZARD IDENTIFICATION

Physical hazards Not classified

Health hazards Not classified

OSHA defined hazards Not classified

### Label elements

Hazard symbol None

Signal Word None

Hazard statement The mixture does not meet the criteria for classification.

### Precautionary statement:

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known

Supplemental Information 67.57% of the mixture consists of component(s) of unknown acute oral toxicity. 96.62% of the mixture consists of component(s) of unknown acute dermal toxicity. Encapsulation in the rubber matrix generally precludes hazardous exposure. However, some vapors may be released during hot processing, and the fabricator must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Mixtures The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.  
\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret

## 4. FIRST-AID MEASURES

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact Wash off with soap and water. Get medical attention if irritation develops and persists. Rinse with water.

Eye Contact Get medical attention if irritation develops and persists

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most Important symptoms/ effects, acute and delayed Direct contact with eyes may cause temporary irritation.

Indication of Immediate medical attention and special treatment needed Treat symptomatically

General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



Fire fighting  
Equipment/instructions      Use water spray to cool unopened containers.

Specific methods      Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards      No unusual fire or explosion hazards noted.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,  
protective equipment and  
emergency procedures      Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for  
containment and cleaning up      Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions      Avoid discharge into drains, water courses or onto the ground.

#### 7. HANDLING AND STORAGE

Precautions for safe handling      Observe good industrial hygiene practices.

Conditions for safe storage,  
including any incompatibilities      Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Not applicable. See Supplemental Information in Section 2.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Appearance

Physical state	Solid
Form	Solid
Color	Black with one orange dot

Odor      N/A

Odor threshold      N/A

pH      N/A

Melting point/freezing point      N/A

Initial boiling point and boiling range      N/A

Flash point      N/A

Evaporation rate      N/A

Flammability (solid, gas)      N/A

##### Upper/lower flammability or explosive limits

Flammability limit – lower (%)	N/A
Flammability limit – upper (%)	N/A
Explosive limit - lower (%)	N/A
Explosive limit - upper (%)	N/A

Vapor pressure      N/A

Vapor density      N/A

Relative density      N/A

##### Solubility(ies)

Solubility (water)	N/A
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Partition coefficient (n-octanol/water)      N/A

Auto-Ignition temperature      N/A

Decomposition temperature      N/A

Viscosity      N/A

##### Other Information

Explosive properties	Not Explosive
Oxidizing properties	Not Oxidizing
Specific gravity	1.85-1.89

#### 10. STABILITY AND REACTIVITY

Reactivity      The product is stable and non-reactive under normal conditions of use, storage and transport

Chemical stability      Material is stable under normal conditions

Possibility of hazardous reactions      No dangerous reaction known under conditions of normal use.

Conditions to avoid      Contact with incompatible materials.

Incompatible materials      Strong oxidizing agents.

Hazardous decomposition products      No hazardous decomposition products are known.

**11. TOXICOLOGICAL INFORMATION:**      Not applicable. See Supplemental Information in Section 2.

**12. ECOLOGICAL INFORMATION:**      Not applicable. See Supplemental Information in Section 2.

#### 13. DISPOSAL CONSIDERATIONS:

Disposal Instructions      Collect and reclaim or dispose in sealed containers at censed waste disposal site.



Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/ unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see- Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION:**

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73nB and the IBC Code	Not applicable.

**15. REGULATORY INFORMATION:**

Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 313 (TRI reporting)

Chemical name	CAS number/Category	% by wt.
Zinc Compounds	N982	1 - < 3

US state regulations

US. California Proposition 65	Not Listed.
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International Inventories

Country(s) or region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the Inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the Inventory administered by the governing country(s).

**16. OTHER INFORMATION, including date of preparation or last revision**

Issue date 9-7-2018

Version # 1

Disclaimer WCR Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.