# White FKM Viton® Sheet: Food Quality

## Features
Viton® A, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

## Regulations
- The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food and with fatty food
- Tested and qualified by BNIC (Bureau National Interprofessionnel du Cognac)
- Quality certificate available under request

## Advantages
- Very good chemical resistance
- Excellent hydrocarbons resistance, either aliphatic, aromatic or chlorinated
- Good impermeability to gases
- Excellent air resistance
- Excellent heat resistance
- Excellent ozone resistance
- Strong resistance to water and steam up to 150 ºC
- Excellent resistance to acids and alkalis, including oxidants

## Benefits
- Legality
- Hygiene, cleanliness
- Reliability
- Service life
- Food safety

## Applications
Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:
- Alcoholic beverages, foodstuffs, fatty products, vegetable and animal oils, alcohol, aqueous products, molasses, etc.
- Diluted and concentrated acids
- Hydraulic oils, fuel oil, automotive and jet fuel, treatment of aliphatic and aromatic hydrocarbons products and fluids
- Organic solvents

## Mechanical, Physical and Chemical Properties

### Mechanical
- **Rubber compound**: FKM Viton®
- **Density**: 2.16 ± 0.05 g/cm³
- **Hardness**: ASTM D2240 70 ± 5 Shore A
- **Tensile strength**: ISO 37 ≥ 10 MPa
- **Elongation at break**: ISO 37 ≥ 200 %
- **Compression set after 22 h at 200 ºC**: ISO 815-1 ≤ 23 %

### Temperature
- **Working temperature**: -10/+250 ºC

### Ageing
- **Δ Hardness after 70 h at 150 ºC**: ASTM D573 ≤ 10 Shore A
- **Δ Tensile strenght after 70 h at 150 ºC**: ASTM D573 ≤ -15 %
- **Δ Elongation at break after 70 h at 150 ºC**: ASTM D573 ≤ -25 %

### Oil Resistance
- **Oil IRM 903, Δ volume after 70 h at 150 ºC**: ASTM D471 ≤ 10 %

### Chemical Resistance
- Diluted acids and bases
- Concentrated acids and bases
- Ozone
- Oils and hydrocarbons
  - Very good
  - Very good
  - Very good
  - Good

## Dimensions

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Width (mm)</th>
<th>Length (m)</th>
<th>Weight (kg/m²)</th>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1200 ± 2 %</td>
<td>20 ± 2 %</td>
<td>2.16</td>
<td>2 smooth sides</td>
</tr>
<tr>
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<td>15 ± 2 %</td>
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</tbody>
</table>

### Identification
- **Branding**: Without.
- **Packaging**: Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm.
- Thickness > 6 mm in roll.
- **Wrapping**: Black polyethylene film.
- **Labelling**: Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.

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