Clamp seals for the process industry

**CLAMP SEALS**

Clamp seals are the ideal sealing element for flange connections in continuously operated systems. Freudenberg has developed clamp seals for simple and reliable pipe connections for a wide range of applications in the process industry. The portfolio includes clamp seals made of five approved high-performance materials:

- EPDM (black)
- EPDM (white)
- Fluoroprene® XP (light blue)
- VMQ (transparent), peroxide cross-linked
- VMQ (transparent), platinum cross-linked

Please see page 2 for a detailed overview of the materials.

**EVERYTHING FROM A SINGLE SOURCE**

Our expertise in the field of clamp seals – your benefits

**MATERIAL EXPERTISE**

- Material portfolio with all internationally relevant approvals
- Very good chemical resistance
- Very good resistance to CIP/SIP processes and media
- Extractables and leachables studies show very low migration values

**PRODUCT AND MANUFACTURING EXPERTISE**

- Made in Europe
- Standardized and customized dimensions
- Good elasticity and easy assembly, even with distorted flange joints
- Reusability after opening the joint
- High operating performance
- Also available without outer lip on request

**CONSULTING AND SERVICE EXPERTISE**

- Profound advice on material selection
- Complete documentation of material approvals and conformities
- Rapid delivery capability thanks to worldwide presence and extensive stockholding
- Customized packaging concepts (individual and kit packaging, customer-specific packaging bags and labels)
- Complete traceability
- Additional possibility for traceability through laser marking

Dimensions of conventional clamp seals according to DIN 32676:

- Series A (metric) nominal dimensions from DN6 – DN200
- Series B DN/OD 10.2 – DN/OD 219.1
- Series C (imperial) 0.25” – 6”

Other dimensions available on request.
## MATERIAL OVERVIEW

<table>
<thead>
<tr>
<th>MATERIAL NAME</th>
<th>COLOR</th>
<th>CROSS-LINKING</th>
<th>CHARACTERISTICS</th>
<th>CONFORMITIES / APPROVALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 EPDM 291</td>
<td>black</td>
<td>peroxide</td>
<td>• Broad resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Excellent elasticity behavior</td>
<td></td>
</tr>
<tr>
<td>70 EPDM 25381S (on demand)</td>
<td>white</td>
<td>peroxide</td>
<td>• For highest purity requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Broad resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Excellent elasticity behavior</td>
<td></td>
</tr>
<tr>
<td>75 Fluoroprene® XP 41</td>
<td>light blue</td>
<td>peroxide</td>
<td>Excellent resistance to aggressive cleaning media, high temperatures and fatty media</td>
<td></td>
</tr>
<tr>
<td>70 VMQ 217055</td>
<td>transp.</td>
<td>peroxide</td>
<td>• Very good chemical and thermal resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Very good low-temperature flexibility</td>
<td></td>
</tr>
<tr>
<td>70 VMQ (on demand)</td>
<td>transp.</td>
<td>platinum</td>
<td>High-purity, platinum cross-linked silicone material for the pharmaceutical and medical sectors</td>
<td></td>
</tr>
</tbody>
</table>

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