



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.

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.



Watch our installation video!

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 dimensions and close to norm variants available
- 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

MATERIAL OVERVIEW

MATERIAL				CONFORMITIES / APPROVALS										
				FOOD & BEVERAGE INDUSTRY						PHARMA				
MATERIAL NAME	COLOR	CROSS-LINKING	CHARACTERISTICS	EU (REG.) 1935/2004	EU (REG.) 2023/2006	MOCA / DECREE 21.03.1973	BNIC (COGNAC)	FDA	NSF 51	3-A [®] SANITARY STANDARDS	ADI FREE	GB 4806 / GB 9685	USP CLASS VI CH. 88 (IN VIVO)	USP CHAPTER 87 (IN VITRO)
70 EPDM 291	black	peroxide	<ul style="list-style-type: none"> Broad resistance Excellent elasticity behavior 	●	●			●	●	●	●		●	●
70 EPDM 253815 (on demand)	white	peroxide	<ul style="list-style-type: none"> For highest purity requirements Broad resistance Excellent elasticity behavior 	●	●			●		●	●		●	●
75 Fluoroprene [®] XP 41	light blue	peroxide	Excellent resistance to aggressive cleaning media, high temperatures and fatty media	●	●	●	●	●	●	●	●		●	●
70 VMQ 117055	transp.	peroxide	<ul style="list-style-type: none"> Very good chemical and thermal resistance Very good low-temperature flexibility 	●	●			●		●	●	●	●	●
70 VMQ (on demand)	transp.	platinum	High-purity, platinum cross-linked silicone material for the pharmaceutical and medical sectors					●			●		●	

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