microFlon®
barite
Reinforced PTFE Gasket Sheet
microstructured reinforced PTFE Gasketing



microFlon® barite is a sintered PTFE gasketing material with a chemically highly resistant filler, which is mainly used for applications in the chemical industrie.

Finely distributed barium sulphate gives **microFlon® barite** an enhanced resistance to cold flow as well as good relaxation properties.

Due to the high chemical resistance of the filler **microFlon® barite** can be exposed to a wide range of aggressive media.

Typical Applications

Components
piping systems, apparatus flanges

Flanges
steel flanges or other metallic flange systems

Media
strong alkalis, weak acids, chlorine, usual media in chemical and petrochemical applications

REACH COMPLIANCE · EC1935/2004 · FDA · TA Luft certified

Key Features

- 100 % pure PTFE with inorganic filler
- chemically inert (except for molten or dissolved alkali metals and elemental fluorine gas - please contact our technical service for questions)
- suitable for strong alkalis
- inhibited against "cold flow"
- high recovery
- good electrical properties
- resistant to age

Approvals and Certificates

- tested according to TA-Luft (VDI 2440) up to 230 °C and VDI 2290 @ 23 °C and 40 bar
- FDA 21 CFR 177.1550 (PTFE)
- FDA 21 CFR 178.3297 ($BaSO_4$)
- Migration Limits according EC1935 / EC10-2011
- EU 1907/2006 (REACH) with Annex XVII and it´s amendments

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Technical Data

Material	100 % virgin PTFE, reinforced with barium sulphate
Temperature Resistance of the Sealing Material	-210°C to +260°C
Chemical Resistance	Chemical resistance to all media pH 0 to 14, except for molten and dissolved alkali metals and elemental fluorine gas at high temperatures and pressures
Recommended Application Range	Vacuum up to 68 bar (1000 psig) depending on the installation parameters

Properties

EN 13555 (2 mm Thickness)	
Qmin (40 bar He; 0,01 mg/(s*m))	15 MPa
*Q_{smin} (Q_A=30 MPa; 40 bar He; L=0,01)	< 10 Mpa
QSmax (at ambient temperature)	100 MPa
PQR at 150°C (QA=30 MPa)	0,48

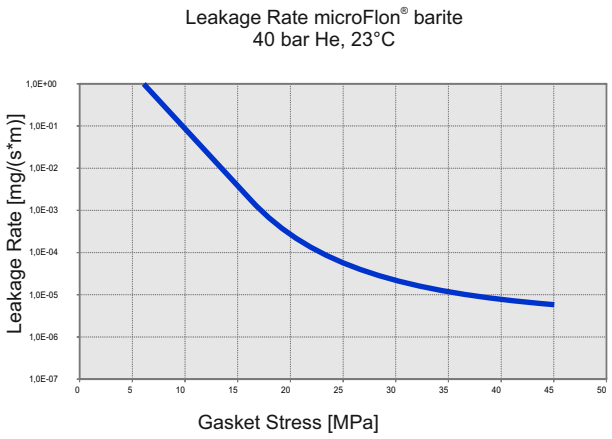
*Due to a series of practical tests it appeared that the minimum required gasket stress during operation is generallly lower than the minimal specified gasket stress according to EN 13555.
Therefor in practice we calculate with QSmin = 5 Mpa at controlled assembly.

ASTM F36	
Compressibility	12 %
Recovery	> 40 %

M-Value	3,5
Y-Value	2450 psi

Density	2,8 g/cm³

Sealing Characteristics



Even at low gasket stress **microFlon® barite** shows very good sealing properties.

Standard Sizes

Type	Size [mm]	Thickness [mm]
microFlon® barite 08	1500 x 1500	0,8 mm
microFlon® barite 10	1500 x 1500	1 mm
microFlon® barite 15	1500 x 1500	1,5 mm
microFlon® barite 20	1500 x 1500	2 mm
microFlon® barite 30	1500 x 1500	3 mm

Made in Bavaria Germany

FluorTex GmbH Polymer Technology

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company. Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the on site operating conditions. For detailed selection criteria, technical assistance and installation guidelines contact our technical Service.

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microFlon barite 260312 en

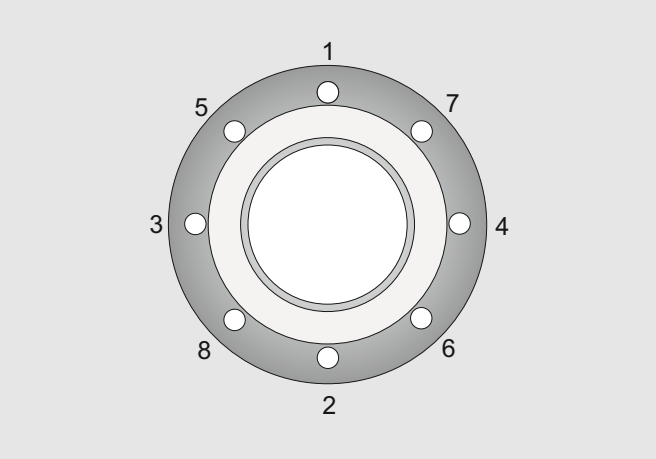
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Assembly

Clean sealing surface completely. Remove any dirt, corrosion, grease or left-over from old sealing materials.
Center gasket on the sealing surface and torque bolts hand-tight.
At least 4 progressive torque sequences with a torque wrench should follow, until you reach the recommended gasket stress.
Always torque crosswise as shown in the sketch (see left).
Perform a circular torque check before start-up of the equipment.
Always follow the state-of-the-art guidelines for gasket assembly as well as the recommended torque for your sealing system.

If you need idividual calculations for special equipment or non-standard gasket sizes contact our Technical Support.



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