

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

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

Technical Data

Material

100 % virgin PTFE, reinforced with barium sulphate

Temperature Range of the material

-210°C to +260°C

Chemical Resistance

resistant to all media in the range of pH 0 to 14, except for molten and dissolved alkali metals and elemental fluorine gas at high temperatures and pressures

Recommended Operating Range*

Vacuum up to 40 bar, from -100 °C to +200 °C

Tests and Certificates

TA-Luft (VDI 2440) up to +230 °C

VDI 2290 at 23 °C and 40 bar

EU 1907/2006 (REACH) with Annex XVII and it's amendments

* depending on the individual conditions of installation

barite

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Standard Sizes

Typ	Größe [mm]	Dicke [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

Properties

EN 13555 (2 mm Dicke)

Q_{min} (40 bar He; 0,01 mg/(s*m)):

15 MPa

Q_{Smin} ($Q_A=30$ MPa; 40 bar He; L=0,01):

< 10 MPa

Q_{Smax} (at ambient temperature):

100 MPa

PQR (30 Mpa 150 °C):

0,48

ASTM F36

Compressibility:

12 %

Recovery:

> 40 %

M-Value:

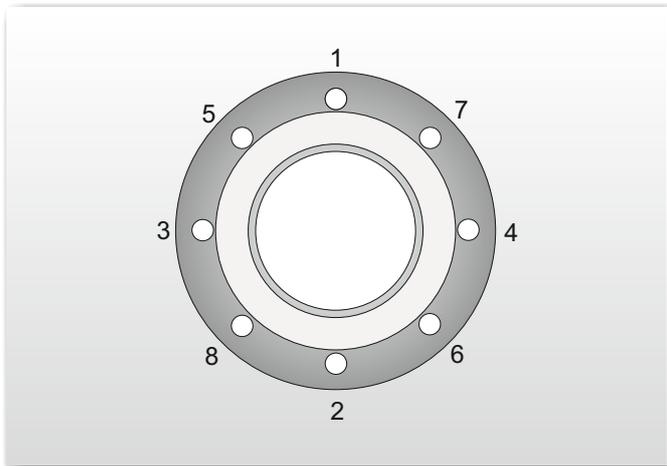
3,5

Y-Value:

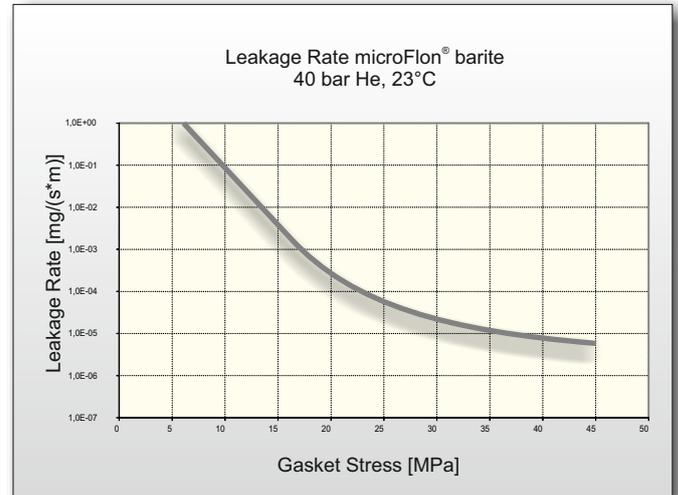
2450 psi

Density:

2,8 g/cm³



Sealing Characteristics



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

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 individual calculations for special equipment or non-standard gasket sizes contact our Technical Support.

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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