multiFlon®

FluorTex®
Polymer Technology

# Gasket Sheet PRO
# Multidirectionally expanded PTFE

## Multidirectional ePTFE Sheet Gasketing



**multiFlon® PRO** - Gasket Sheets are made from 100% pure multidirectional ePTFE.

The material consists solely of highest-grade PTFE resins that offer an almost unlimited chemical resistance.

During installation, gaskets made from **multiFlon® PRO** sheets adapt perfectly to flange roughness, unevenness and usual irregularities of used flanges.

In service, when subjected to temperature cycling and external forces, **multiFlon® PRO** maintains high gasket stress and forms an optimally thin gasket with high blow-out safety.

With **multiFlon® PRO** sheet gasketing you can cover a wide range of metal flange shapes in demanding aggressive environments.

For the use in high-purity applications **multiFlon® PRO** GMP sheets with ink-free marking are available on request.

## Typical Applications

**Components**
large-diameter standard flanges, piping systems, apparatus flanges, complex geometries

**Flange Types**
Steel flanges and high-grade FRP components

**Media**
Highly aggressive chemicals, all media in food and pharma applications (**multiFlon® PRO** - Gasket Sheets are also available with embossed marking or unbranded, for the most demanding food and pharma applications)

## Key Features

- easy to fabricate into all gasket shapes
- chemically inert (except for molten or dissolved alkali metals and elemental fluorine gas - please contact our technical service for questions)
- suitable for high temperatures
- highly compressible
- highly conformable to the sealing surface
- reliably tight and blow-out safe
- 100% resistant to ageing in the applicable range of use (see technical data)
- reduces service and operating costs

## Approvals and Certificates

- FDA 21 CFR 177.1550 (PTFE)
- EC 1935/2004 and related regulations for extraction limits and GMP
- BAM for liquid and gaseous oxygen
- EU 1907/2006 (REACH) with Annex XVII and its amendments
- USP Class VI (not intended for implantation in the human body)

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# multiFlon® Gasket Sheet PRO

# Multidirectionally expanded PTFE

## Technical Data

| | |
|---|---|
| Material | 100 % pure, multidirectionally expanded PTFE (ePTFE) |
| Temperature Resistance of the Sealing Material | -240°C to +270°C, intermittent to +315°C |
| Chemical Resistance | Chemical resistance to all media pH 0 to 14, except molten alkali metals and elemental fluorine |
| Recommended Application Range | Vacuum up to 68 bar (1000 psig) depending on the installation parameters |

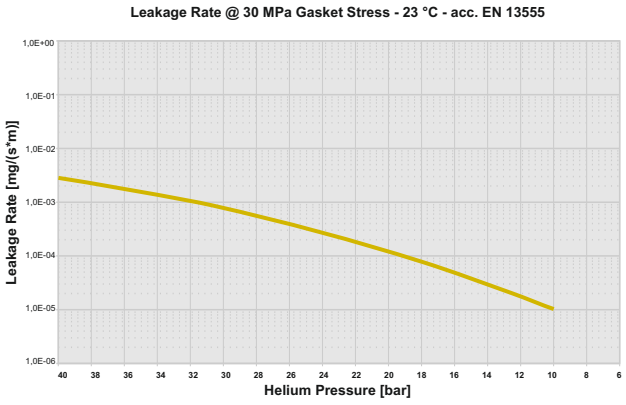
## Properties

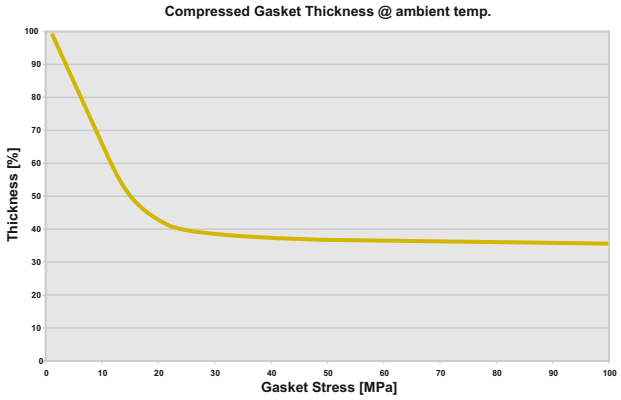
| EN 13555 (2 mm thickness) | |
|---|---|
| $Q_{min}$ (40 bar He; 0,01 mg/(s*m)) | 27 MPa |
| *$Q_{smin}$ ($Q_A$=30 MPa; 46 bar He; L=0,01) | < 10 MPa |
| $Q_{smax}$ (23°C) | 160 MPa |
| Leakage Rate ($Q_A$=40 MPa; 40 bar He) | < $10^{-4}$ mg/(s*m) |
| $P_{QR}$ @ 23 °C ($Q_A$=30 MPa) | 0,94 |

*Due to a series of practical tests it appeared that the minimum required gasket stress during operation is generally lower than the minimal specified gasket stress according to EN 13555.
Therefore in practice we calculate with $Q_{Smin}$ = 5 MPa at controlled assembly.

| ASTM F36 | |
|---|---|
| Compressibility | 50-55 % |
| Compressed thickness | 0,90 mm |
| Recovery | 13 % |
| Recovered thickness | 1,04 mm |

## Gasket Characteristics




## Available Standard Sizes

| Type | Size [mm] | Thickness [mm] |
|---|---|---|
| **multiFlon® PRO** | 1500 x 1500 | 0,5 |
| **multiFlon® PRO** | 1500 x 1500 | 1 |
| **multiFlon® PRO** | 1500 x 1500 | 1,5 |
| **multiFlon® PRO** | 1500 x 1500 | 2 |
| **multiFlon® PRO** | 1500 x 1500 | 3 |
| **multiFlon® PRO** | 1500 x 1500 | 6 |

Special sizes upon request

## Choice Recommendation

1,5 mm thickness in new piping systems up to DN 300 / 12”

2 mm thickness in standard flanges with good sealing surface

3 mm thickness in flanges and flange-like joints with tolerable unevenness and roughness

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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Made in Bavaria Germany

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# Assembly

Clean sealing surface completely. Remove any dirt, corrosion, grease or residue from old sealing materials.

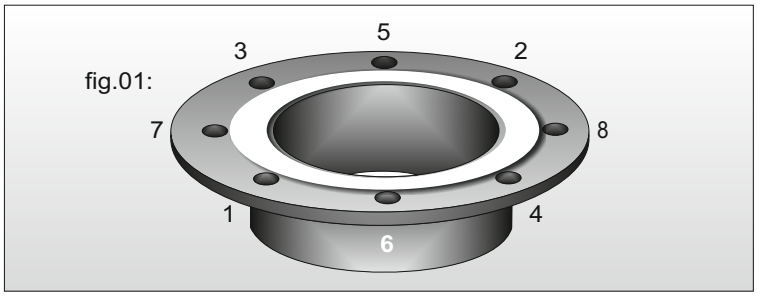
Position gasket to the middle of the sealing surface and torque bolts hand-tight. At least 4 progressive torque sequences with a torque wrench should follow, until you reach the recommended gasket stress (follow sequence as shown in fig. 01).

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.

fig.01:




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