multiFlon®

FluorTex®
Polymer Technology

Multidirectionally expanded PTFE Tape

Multidirectional ePTFE Form-In-Place Gasket Tape



multiFlon® Tape is the high-grade alternative to reduce maintenance, production loss, material costs and scrap with large-diameter piping and metal or glass-lined apparatus flanges.

multiFlon® Gasket Tape is made from 100% pure multidirectionally expanded Teflon™ PTFE.
Its characteristics are directly comparable to gaskets made out of **multiFlon®** Sheet Gasketing material.
This multidirectional ePTFE gives excellent creep resistance for a long-lasting seal that is reliably tight and blow-out safe.

multiFlon® Tape has an adhesive backing, can easily be formed in place and is highly conformable.
For use in special applications, **multiFlon® Tape LD** is available with low density and high compressibility.

multiFlon® Tape in the “GMP” version is available for demanding applications with high purity requirements.

Typical Applications

Components
large-diameter flanges, mixers, stirrers, columns, pump and turbine housings, steel equipment with higher surface irregularities, vessels as well as heat exchangers in all industries

Flanges
all types of flanges, large and complex geometries

Sealing Areas and Flange Materials
steel, aluminium, Inconel, other metal alloys, FRP, glass

Key Features

- chemically inert (for use in contact with molten alkali metals and elemental fluorine gas please contact our technical service)
- temperature resistant
- conformable and adaptable
- low compressive creep and high dimensional stability
- quick and easy to install
- reliably tight and long-lasting
- lowers inventory and installation costs

Approvals and Certificates

- FDA 21 CFR 177.1550 (PTFE)
- EC 1935/2004 and related regulations for extraction limits and GMP
- BAM for gaseous oxygen

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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

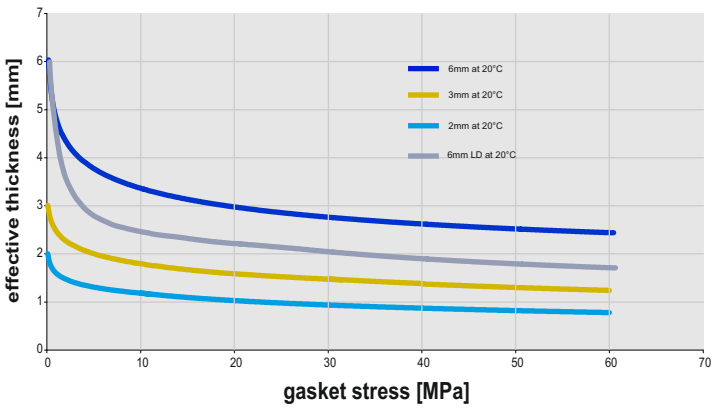
EN 13555 (2 mm thickness)	
Q_{min} (40 bar He; 0,01 mg/(s*m))	27 MPa
$*Q_{smin}$ (Q_A=30 MPa; 46 bar He; L=0,01)	< 10 MPa
Q_{smax} (23°C)	160 MPa
Leakage Rate (Q_A=40 MPa; 40 bar He)	< 10^{-4} mg/(s*m)
P_{QR} @ 23 °C (Q_A=30 MPa)	0,94

*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

installed thickness multiFlon® Tape



Sizes and Spool Lengths

	Thickness [mm] / Spool Length [m]		
Width [mm]	**2 mm**	**3 mm**	**6 mm**
10	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
15	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
20	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
25	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
30	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
35	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25

Special sizes and lengths upon request

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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multiFlon Tape 260907 en

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Made in Bavaria Germany

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Assembly

Completely clean the sealing surfaces. Remove any dirt, corrosion, oil, or residue from old gasket materials.

Cut one end of the gasket using the skiving technique shown in Figure 1.

Remove a small section of the covering paper from the adhesive backing and position the tape at the center of the effective sealing width, placing the skive just next to a bolt hole on its pressure relating side. Fit the gasket tape around the entire flange circumference.

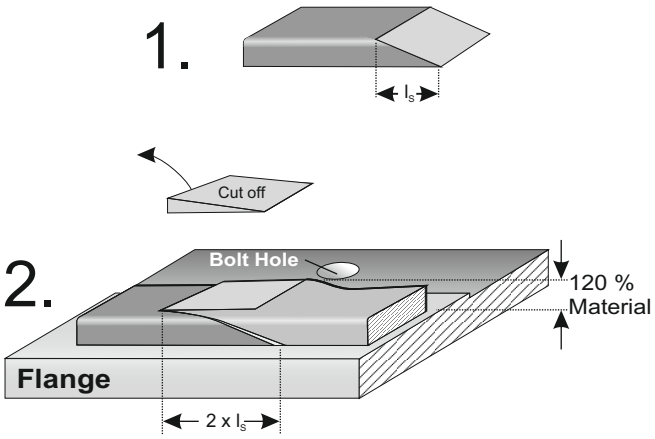
Lay the tape across the skive, completing with a second cut as shown in Figure 2, allowing the overlap length as required.

Horizontally cut off the excess, leaving a total thickness of approximately 120% of the original thickness.

At least 3 progressive torque sequences in a star or 180° method should be used.

Lastly, perform a circular torque check to ensure a tight, long-lasting seal.

Assembly with skiving technique



Length of the skive cut l_s for multiFlon® Tape

Thickness [mm]	Lenght skive cut (l_s) [mm]
2	10 - 20
3	15 - 25
6	25 - 35
9	35 - 45

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