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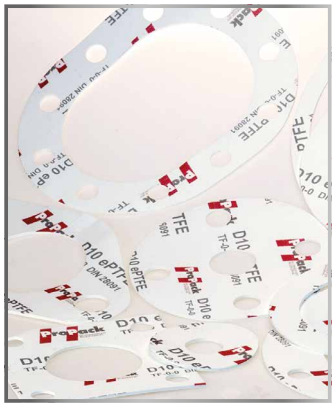
Worldwide your competent partner for **Sealing Technology**



D 10 ProFlansch

Formstable biaxially expanded ePTFE sheets or die cutted gaskets

Characteristics

- Excellent adaption
- High blow-out resistance
- No cold flow
- Chemically inert

Operating range

p_{max} [bar]	Vacuum . . . 200
t °C	-240 . . . +270
pH	0 – 14

Recommended application range:
vacuum up to 40 bar at -240 °C to +230 °C

Further technical parameter

Minimum Surface pressure:
VU (40 bar; 0,01) = 26 Mpa
Maximum Surface Pressure:
VO = 150 Mpa
Minimum surface pressure in operation: BU < 5 Mpa
Cold upset compression value:
KSW = 40 %

Main application

- Flanges
- Vessels
- Lids
- Joints
- Narrow flanges
- Bigger uneveness
- Tension sensitive components (e.g. sight glasses)

Suitable for

- Chemical industry
- Food industry
- Maintenance

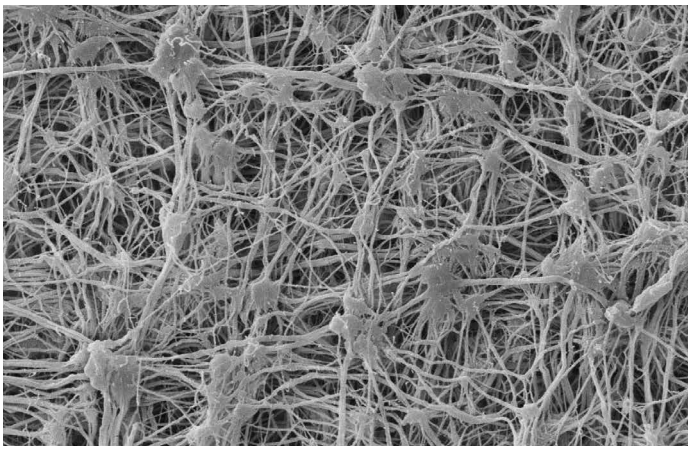
Approvals

- DIN 28090-2
- TA Luft 1,5 · 10^{-8} mbar · l/(s·m) @ 250 °C
- TÜV approval according to MUC-KSP-A066
- BAM for gaseous oxygen 60 °C / 40 bar and liquid oxygen
- FDA 21CFR 177.1550 (PTFE)

FDA

Form of delivery

- Sheet dimension: 1,000 x 1,100 mm and 1,500 x 1,500 mm
- Sheet gaskets thicknesses: 0.5 / 1.0 / 1.5 / 2.0 / 3.0 / 4,0 / 5,0 / 6,0 / 7,0 / 8,0 / 9,0 / 10 mm
- As insertable gasket or diecut shaped gasket for example hand + manhole gasket in any kind of form upon request



Microscopic view

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TECHNOLOGY MADE IN GERMANY

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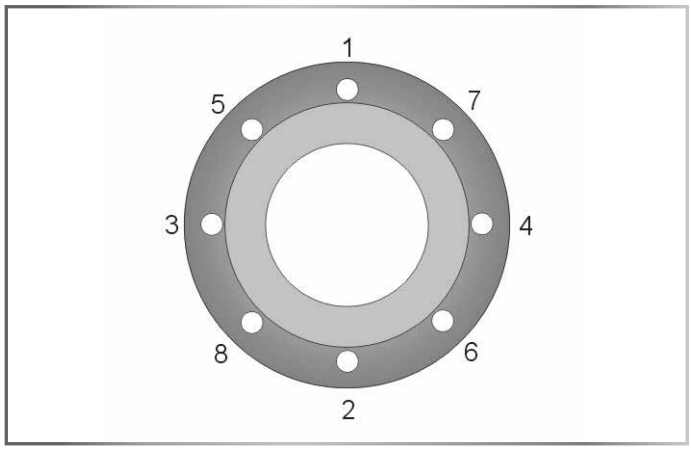

Installation

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

- Position gasket centric on the sealing surface. Take extra care on vertical assemblies. First tighten bolts finger-tight.

  Then continue at least with 4 progressive torque sequences with a torque wrench, always torque crosswise as shown in the sketch (see fig. 1). Apply 25%, 50%, 75% and 100% of the recomended gasket stress.

- Always follow the state-of-the-art guidelines for gasket assembly as well as the recommended torque for your sealing system.
- Notes of the flange manufacturer and recomended torques for the sealing system (flange, bolt, gasket) need to be followed.

Gasket sheets technical data

	Compressibility ASTM F36 %	Recovery ASTM F36 %	PQR EN13555	Pressure* max * bar	Temp (Material)* max * °C	Material	Q_{min} EN13555 (MPa)	Q_{Smin} EN13555 (MPa)	Q_{Smax} EN13555 (MPa)
D 10 ProFlansch	55	13	0,94 @ 20 °C; QA=30MPa	40	270	ePTFE, biaxial gereckt	27	<10 (1)	160

***The max values of pressure and temperature cannot be used at the same time**

The provided Pressure and Temperature data is based on optimal installation condition and steady control of the flange connnection

Gasket properties following EN 13555 (2 mm thickness) Q_{min}@40 bar He, 0.01 mg/(ms) and Q_{Smin}@QA 40 Mpa He, L=0.01

(1) Q_{Smin} @ QA 30 MPa,40 bar He, L=0.01

(2) Q_{Smin} @ QA 60 MPa,40 bar He, L=0.01

Q_{Smax} @ RT

Form of delivery

thickness (mm)	Recommended for Steel Flanges width according DIN 2690 (NW)	Surface pressure/ resulting thickness in (mm)			
		10 N/mm²	20 N/mm²	30 N/mm²	40 N/mm²
2	≤ 300	1.08	0.87	0.81	0.76
3	≤ 800	1.81	1.31	1.21	1.14
4	≤ 800	2.16	1.75	1.61	1.52
5	≤ 800	2.70	2.19	2.01	1.90
6	≤ 1500	3.24	2.62	2.42	2.28
7	≤ 1500	3.78	3.06	2.82	2.66
8	≤ 1500	4.32	3.50	3.22	3.04
9	≤ 1500	4.86	3.93	3.62	3.42
10	> 1500	5.41	4.37	4.03	3.80

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