ProPack
DICHTUNGEN UND PACKUNGEN AG

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

| | |
|---|---|
| $p_{max}$ [psi] | Vacuum . . . 2900 |
| t °F | -400 . . . +520 |
| pH | 0 - 14 |

Recommended application range: vacuum up to 580 psi at -460 °F to +450 °F

## Further technical parameter

Minimum Surface pressure:
VU (580 psi; 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

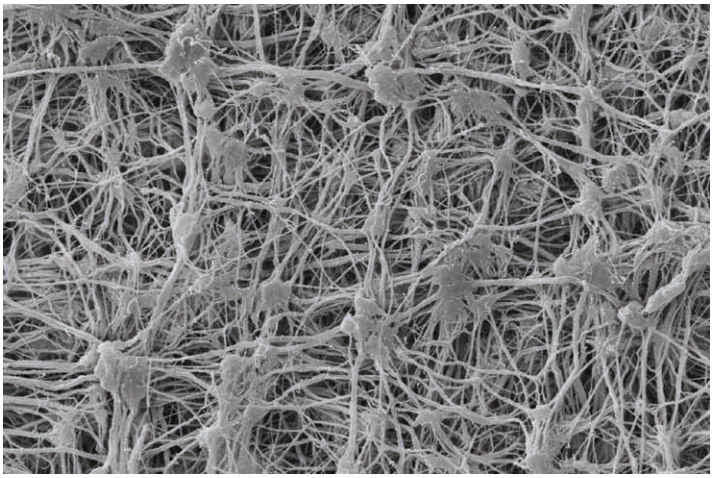
## Approvals

- DIN 28090-2
- TA Luft 1,5 · $10^{-8}$ mbar · l/(s·m) @ 480 °F
- TÜV approval according to MUC-KSP-A066
- BAM for gaseous oxygen 140 °F / 580 psi and liquid oxygen
- FDA 21CFR 177.1550 (PTFE)

FDA

## Form of delivery

- Sheet dimension: 60" x 60"
- Sheet gaskets thicknesses: 0.02" / 0.04" / 0.06" / 0.08" / 0.12" / 0.16" / 0.20" / 0.24" / 0.28" / 0.32" / 0.35" / 0.40"
- 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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All technical information and advice is based on our experience and will be given most conscientiously but without any liability.
Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.
Please note that the technical values cannot be used all at the same time in their maximum values.

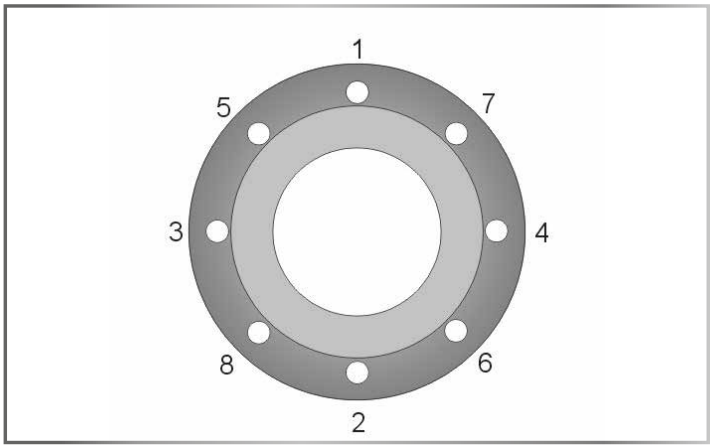
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**Installation**

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 * psi | Temp (Material)* max * °F | Material | $Q_{min}$ EN13555 (MPa) | $Q_{Smin}$ EN13555 (MPa) | $Q_{Smax}$ EN13555 (MPa) |
|---|---|---|---|---|---|---|---|---|---|
| D 10 ProFlansch | 55 | 13 | 0.94 @ 68 °F; QA=30MPa | 580 | 510 | ePTFE, biaxial expanded | 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 / 0.08" thickness) $Q_{min}$@580 psi He, 0.01 mg/(ms) and

$Q_{Smin}$@QA 40 Mpa He, L=0.01

(1) $Q_{Smin}$ @ QA 30 MPa,580 psi He, L=0.01

(2) $Q_{Smin}$ @ QA 60 MPa,580 psi He, L=0.01

$Q_{Smax}$ @ RT

## Form of delivery

| thickness (mm) / (inch) | Recommended for Steel Flanges width according DIN 2690 (NW) | Surface pressure/ resulting thickness in (inch) | | | |
|---|---|---|---|---|---|
| | | 1450 lbf/in² | 2900 lbf/in² | 4350 lbf/in² | 5800 lbf/in² |
| 2 / 0.08" | ≤ 300 | 0.043 | 0.034 | 0.032 | 0.030 |
| 3 / 0.12" | ≤ 800 | 0.071 | 0.052 | 0.048 | 0.045 |
| 4 / 0.16" | ≤ 800 | 0.085 | 0.069 | 0.063 | 0.060 |
| 5 / 0.20" | ≤ 800 | 0.106 | 0.086 | 0.079 | 0.075 |
| 6 / 0.24" | ≤ 1500 | 0.128 | 0.103 | 0.095 | 0.090 |
| 7 / 0.28" | ≤ 1500 | 0.149 | 0.120 | 0.111 | 0.105 |
| 8 / 0.32" | ≤ 1500 | 0.170 | 0.138 | 0.127 | 0.120 |
| 9 / 0.35" | ≤ 1500 | 0.191 | 0.155 | 0.143 | 0.135 |
| 10 / 0.40" | > 1500 | 0.213 | 0.172 | 0.159 | 0.150 |

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