

D1 - PROTEX

ePTFE - Gasket Sealing Tape



Pressure - Vacuum	[psi]	3625
Temp min.	[°F]	-400
Temp max. **	[°F]	+518 (590*)
Chem Resist. ***	[ph]	0 - 14

* Short term.

** After first heat cycle of more than 120°C retighten the bolts.

*** Except molten or dissolved alkaline metals, elementary or dissolved fluorine under high pressure, non ageing.

Main areas of application:

- Agitators
- Air channels
- Air coolers
- Electrolytic units
- Exhaust gas channels
- Flanges
- Gear boxes
- Tanks
- Pumps
- Reactors
- Sight glasses
- Steel constructions
- Piping systems
- Turbines
- Vessels

Material:

100 % pure ePTFE (in accordance with VDE-VDI 2480) in an expanded knot-fibre structure. This ensures a high pressure stability (no coldflow) and a good adaptation to the surface of the seal area.

Approvals:

- FDA: Sheet BG No. 21 from German Federal Health Ministry suitable up to 500°F
- TÜV Test - No. MP 4/0558: $K_{ox} K_D = 14.4 \times b_D \text{ N/mm}^2$ to 87 psi
 $K_1 = 1.63 \times b_D \text{ mm}$
- BAM Tgb.-No. 6895/89 4-2544 for oxygen with 212°F, 1450 psi
- DVGW Reg.-No. DG 5127 AU3305 Gas and Water approved
- TA-Luft $1,7 \times 10^{-7} \text{ mbar (l/ms)}$
- WRc-NSF Ltd

Form of delivery:

Standard values dependent on surface and material. Gas tight over 20N/mm² surface pressure during operation.

Order No.	Dimension		Roll Length in (ft)	Recommended Nominal Width	Surface Pressure / Residual Thickness		
	mm	inch			1450 lb/in ²	2900 lb/in ²	4350 lb/in ²
D1/1	1mm		82	to NW 3.937"	0.0059	0.0039	0.0031
D1/3	3x 1.5mm	1/8"	82	to NW 11.811"	0.0157	0.0138	0.0118
D1/5	5x 2mm	3/16"	82	to NW 31.496"	0.0315	0.0236	0.0197
D1/7	7x 2.5mm	1/4"	82/33	to NW 59.055"	0.0394	0.0315	0.0276
D1/10	10x 3mm	3/8"	82/33	to NW 59.055"	0.0472	0.0354	0.0315
D1/14	14x 5mm	9/16"	33/16,5		0.0630	0.0472	0.0394
D1/17	17x 6mm	5/8"	33/16,5		0.0827	0.0591	0.0551
D1/20	20x 7mm	3/4"	33/16,5	In case of bigger unevenness choose a bigger dimension or set double layers locally.	0.0945	0.0709	0.0551
D1/25	25x 5mm	1"	33/16,5		0.0630	0.0472	0.0394
D1/28	28x 5mm	1.1"	33/16,5		0.0630	0.0472	0.0394
D1/40	40x 5mm	1.5"	33/16,5		0.0630	0.0472	0.0394

All technical information and advice is based on our experience and will be given most conscientiously but without any liability. Indication and figures need to be examined by the user.
All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.