

## TEADIT TF 1580

### Description:

TEADIT TF 1580 is a structured PTFE - Gasket - Sheet manufactured by a unique process which provides a high level of fibrillation to overcome the creep relaxation and cold flow problems associated with normal (skived or moulded) PTFE sheets. TEADIT TF1580 is produced from virgin PTFE resin filled with Barium Sulfate.

### Advantages:

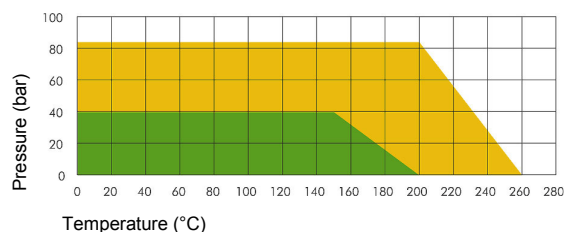
- Universal gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a broad temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- TEADIT TF 1580 is suitable for service with a wide variety of aggressive fluids, including hydrocarbons, moderate acids and strong caustics, solvents, water, steam, hydrogen-peroxide, refrigerants, etc.
- The high purity of this gasket sheet makes it excellently suitable for the food and pharmaceutical industry
- TEADIT TF 1580 is quick and simple to install. The used gasket can be removed easily and without residue.

### Approvals:

- TA Luft
- Blow-Out-Test VDI 2200
- FDA
- Germanischer Lloyd Approval
- DVGW
- BAM

### P x T diagramm:

The P x T diagram above indicates the service limits considering the simultaneous influence of pressure and temperature (chemical suitability assumed). The green area represents the normal service limits, while the orange coloured area shows the maximum application limits.



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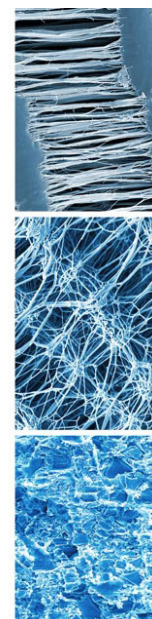
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### Properties:

- Colour: off-white (no dye)
- Size: Sheets of 1500 mm x 1500 mm in 1.5 mm, 2.0 mm and 3.0 mm thickness
- Temperature: -210°C to +260°C
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive lyes and moderate acids. The only exception are molten alkali metals and elemental fluorine at high temperatures and pressures.
- Operating Pressure: 83 bar
- Ageing: TEADIT TF 1580 is not subject to ageing or weathering. It can be stored indefinitely. Safety: TEADIT TF 1580 complies to FDA requirements for food, is physiologically harmless and is suitable for oxygen applications.

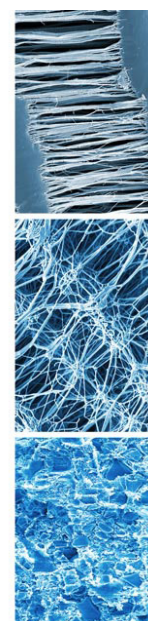
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## TEADIT TF 1580

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property	test method	nominal value	parameters
density [g/cm <sup>3</sup> ]	ASTM D 792	2.9	
compressibility [%]	ASTM F 36	10	$\sigma = 34 \text{ MPa}$
recovery [%]	ASTM F 36	40	$\sigma = 34 \text{ MPa}$
compressibility $\epsilon$ KSW [%]	DIN 28090 - 2	9	$\sigma = 20 \text{ MPa}$
recovery $\epsilon$ KSW [%]	DIN 28090 - 2	1.9	$\sigma = 20 \text{ MPa}$
tensile strength [MPa]	ASTM 152	14	room temperature
creep deformation [%]	ASTM F38	11	
stress retention [MPa]	DIN 52913	11	30 N/mm <sup>2</sup> , 150°C, 16h
sealability [ml/h]	ASTM F 37	0.04	0.7 bar
Q min 0,01 [MPa]	EN 13555	< 10	HE 40 bar
Q smin 0,01 [MPa]	EN 13555	< 10	HE 40 bar
Q min 0,001 [MPa]	EN 13555	13	HE 40 bar
Q smin 0,001 [MPa]	EN 13555	< 10	HE 40 bar
Q crit	EN 13555	> 240	room temperature
Q smax	EN 13555	> 240	room temperature
sealability [mg / s • m]	DIN 3535	< 0.015	N <sub>2</sub> , 40 bar, 32 MPa
specific leakage rate L [mbar • l / (s • m)]	VDI 2440 / TA LUFT	$5.9 \cdot 10^{-7}$	He, 1 bar, 30 MPa

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