



Product information

REV2013344

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:

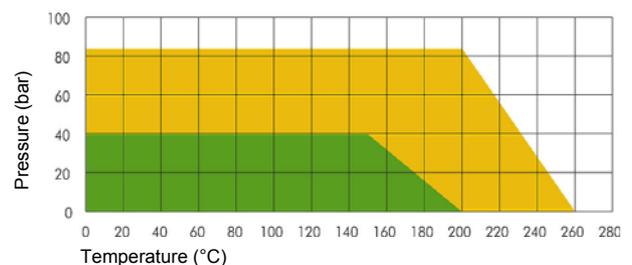
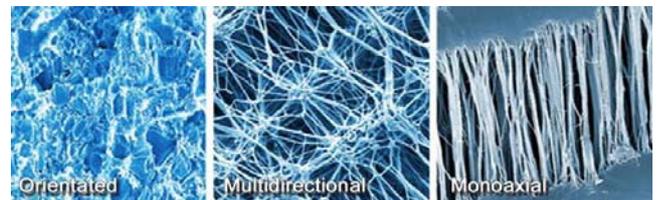
- Universal gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a broad temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- TEADIT **TF 1580** is suitable for service with a wide variety of 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.

Properties:

- Colour: off-white (no dye)
- Size: Sheets of 1500 mm x 1500 mm
- Thickness: 0.5mm up to 3.2mm
- 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 temperature and pressure.
- Operating Pressure: 83 bar
- Ageing: TEADIT **TF 1580** is not subject to ageing or weathering. It can be stored indefinitely.
- Safety: TEADIT **TF 1580** is suitable for oxygen applications.

Approvals:

- TA Luft
- Blow-Out-Test
- Germanischer Lloyd Approval
- DVGW
- BAM (Oxygen)



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.



STOCKED, SUPPORTED AND DISTRIBUTED BY


WILLIAM JOHNSTON
& COMPANY LIMITED

TEL: +44 (0) 141 620 1666

email: sales@williamjohnston.co.uk

www.williamjohnston.co.uk

TEADIT INT. - Rosenheimer Str. 10, 6330 Kufstein, AUSTRIA, Tel.: +43-5372-64020-0, Fax: +43-5372-64020-20, austria@teadit.eu, www.teadit.eu
 TEADIT Deutschland - Schanzenstr. 35, 51063 Köln, GERMANY, Tel.: +49-221-922 342-0, Fax: +49-221-922 342-22, germany@teadit.eu

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT® has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT® does not undertake any liability of any kind whatsoever. Please note: the colour of the actual product might vary from the above image on this data-sheet.

**TEADIT®**

sealing for a safer and greener tomorrow

**TEADIT TF 1580**

property	test method	nominal value	parameters
density [g/cm ³]	ASTM D 792	2.9	
compressibility [%]	ASTM F 36	10	$\sigma = 34$ MPa
recovery [%]	ASTM F 36	40	$\sigma = 34$ MPa
compressibility ϵ KSW [%]	DIN 28090 - 2	9	$\sigma = 20$ MPa
recovery ϵ KRW [%]	DIN 28090 - 2	1.9	$\sigma = 20$ MPa
tensile strength [MPa]	ASTM 152	14	room temperature
creep deformation [%]	ASTM F38	11	
stress retention [MPa]	DIN 52913	11	30 N/mm ² , 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 smax [MPa]	EN 13555	> 240	room temperature
sealability [mg / s • m]	DIN 3535	< 0.015	N ₂ , 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

**TEADIT®**

STOCKED, SUPPORTED AND DISTRIBUTED BY

**WILLIAM JOHNSTON
& COMPANY LIMITED**

TEL: +44 (0) 141 620 1666

email: sales@williamjohnston.co.ukwww.williamjohnston.co.uk

TEADIT INT. - Rosenheimer Str. 10, 6330 Kufstein, AUSTRIA, Tel.: +43-5372-64020-0, Fax: +43-5372-64020-20, austria@teadit.eu, www.teadit.eu
 TEADIT Deutschland - Schanzenstr. 35, 51063 Köln, GERMANY, Tel.: +49-221-922 342-0, Fax: +49-221-922 342-22, germany@teadit.eu

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT® has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT® does not undertake any liability of any kind whatsoever. Please note: the colour of the actual product might vary from the above image on this data-sheet.