

TEADIT TF 1590

Description:

TEADIT **TF 1590** 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 **TF1590** is produced from virgin PTFE resin filled with Silica.

Advantages:

- It is suitable for services with high pressures and temperature, especially in chemical processing and hydrocarbon plants in strong acids (except hydrofluoric), solvents, hydrocarbons, water, steam, and chlorine.
- TEADIT **TF 1590** is quick and simple to install. The used gasket can be removed easily and without residue.

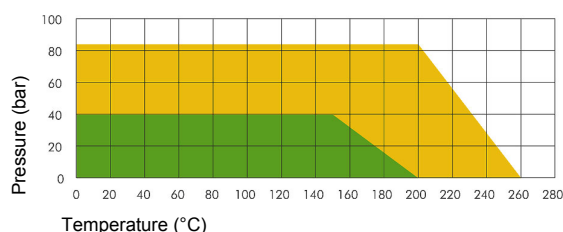


Approvals:

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

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.



Properties:

- Colour: fawn
- 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 acids and moderate lyes. It is not suitable for molten alkali metals and elemental fluorine at high temperatures and pressures.
- Operating Pressure: max. 83 bar
- Ageing: TEADIT **TF 1590** is not subject to ageing or weathering. It can be stored indefinitely.
- Safety: TEADIT **TF 1590** complies to FDA requirements for food, is physiologically harmless and is suitable for oxygen applications.

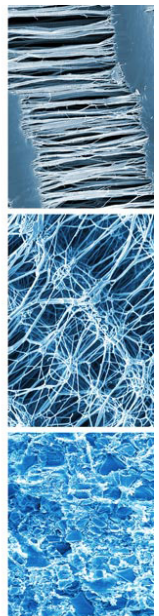


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property		test method	nominal value	parameters
density	[g/cm ³]	ASTM D 792	2.1	
compressibility	[%]	ASTM F 36	10	$\sigma = 34 \text{ MPa}$
recovery	[%]	ASTM F 36	40	$\sigma = 34 \text{ MPa}$
compressibility ϵ KSW	[%]	DIN 28090 - 2	6	$\sigma = 20 \text{ MPa}$
recovery ϵ KRW	[%]	DIN 28090 - 2	2.2	$\sigma = 20 \text{ MPa}$
tensile strength	[MPa]	ASTM 152	14	room temperature
creep deformation	[%]	ASTM F38	18	
stress retention	[MPa]	DIN 52913	13	30 N/mm ² , 150 °C, 16h
sealability	[ml/h]	ASTM F 37	0.2	0.7 bar
Q min 0,01	[MPa]	EN 13555	21	HE 40 bar
Q smin 0,01	[MPa]	EN 13555	< 10	HE 40 bar
Q min 0,001	[MPa]	EN 13555	29	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 ₂ , 40 bar, 32 MPa
specific leakage rate L	[mbar · l / (s · m)]	VDI 2440 / TA LUFT	$1.1 \cdot 10^{-6}$	He, 1 bar, 30 MPa

NO WAY THROUGH



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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.