



Product information

TEADIT TF 1570

Description:

TEADIT **TF 1570** 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 **TF 1570** is produced from virgin PTFE resin filled with hollow glass micro spheres.

Advantages:

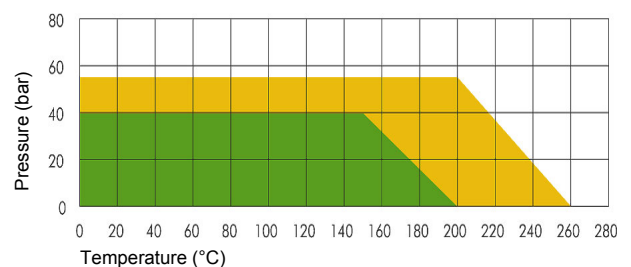
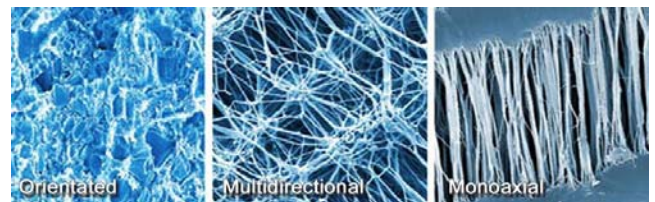
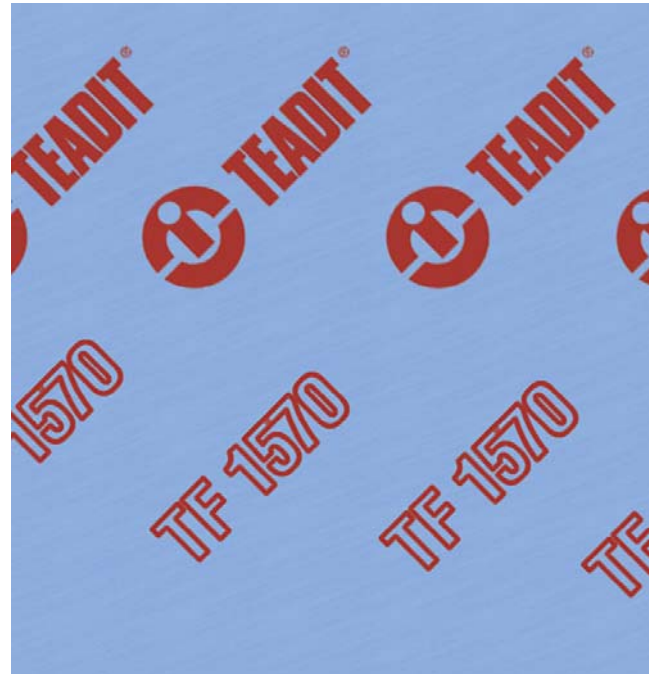
- TEADIT **TF 1570** is suitable for service with a wide variety of aggressive fluids, including hydrocarbons, acids and caustics, solvents, water, steam, hydrogen-peroxide, refrigerants, etc.
- The high compressibility of TEADIT **TF 1570** makes it particularly suitable for use with stress sensitive and/or fragile flanged joints, e.g. glass, ceramics, plastic, etc.
- The excellent malleability of TEADIT **TF 1570** makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- TEADIT **TF 1570** is quick and simple to install. The used gasket can be removed easily and without residue.

Properties:

- Colour: blue
- 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 acids and lyes. It is not recommended for strong caustic service above 80°C. It must not be used in contact with molten alkali metals and elemental fluorine at high temperature and pressure.
- Operating Pressure: 55 bar
- Ageing: TEADIT **TF 1570** is not subject to ageing or weathering. It can be stored indefinitely.

Approvals:

- TA Luft
- Blow-Out-Test
- FDA
- Germanischer Lloyd Approval
- 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.





TEADIT TF 1570			
property	test method	nominal value	parameters
density [g/cm ³]	ASTM D 792	1.7	
compressibility [%]	ASTM F 36	35	$\sigma = 34$ MPa
recovery [%]	ASTM F 36	30	$\sigma = 34$ MPa
compressibility ϵ KSW [%]	DIN 28090 - 2	29	$\sigma = 20$ MPa
recovery ϵ KRW [%]	DIN 28090 - 2	7.4	$\sigma = 20$ MPa
tensile strength [MPa]	ASTM 152	14	room temperature
creep deformation [%]	ASTM F38	40	
stress retention [MPa]	DIN 52913	12	30 N/mm ² , 150°C, 16h
sealability [ml/h]	ASTM F 37	0.12	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	16	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	$3.7 \cdot 10^{-6}$	He, 1 bar, 30 MPa



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