

TEADIT TF 1510

Description:

TEADIT **TF 1510** is a highly compressible 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 standard (skived or moulded) PTFE sheets. TEADIT **TF 1510** is produced from virgin PTFE resin filled with hollow-glass-micro-spheres.

Advantages:

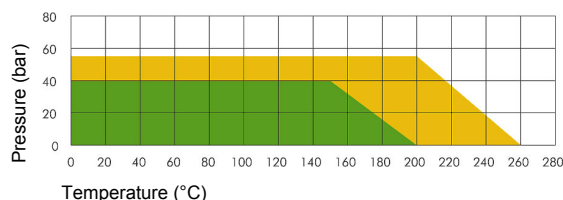
- TEADIT TF 1510 is suitable for service with a wide variety of aggressive fluids, including hydrocarbons, acids and caustics, solvents, water, steam, hydrogen-peroxide, refrigerants, etc.
- Excellent mechanical strength and high stress retention value.
- The high compressibility of TEADIT TF 1510 makes 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 1510 makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- TEADIT TF 1510 is quick and simple to install. The used gasket can be removed easily and without residue.

Approvals:

- TA Luft: exceeding the requirements of Technical Instructions on Air Quality
- Blow-out test VDI 2200
- Germanischer Lloyd Approval
- BAM
- FDA

P x T diagramm:

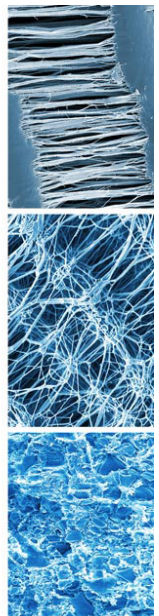
The P x T diagram above indicates the service limits considering the simultaneous influence of pressure and temperature (chemical suitability assumed). The green area represents the normal service limits, while the orange coloured area shows the maximum application limits.



Properties:

- Colour: white
- Size: Sheets of 1500 mm x 1500 mm in 1.5 mm, 2.0 mm and 3.0 mm thickness
- Temperature: -240°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 may not be used in contact with molten alkali metals and elemental fluorine at high temperature and high pressure.
- Operating Pressure: 55 bar
- Aging: TEADIT **TF 1510** is not subject to aging or weathering. It can be stored indefinitely.
- FLAME RESISTANT!

NO WAY THROUGH

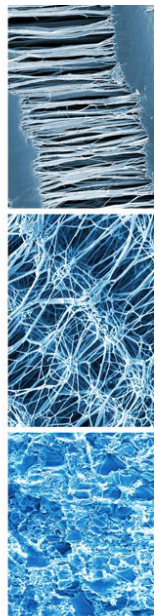


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property		test method	nominal value	parameters
density	[g/cm ³]	ASTM D 792	1.1	
compressibility	[%]	ASTM F 36	50	$\sigma = 34 \text{ MPa}$
recovery	[%]	ASTM F 36	16	$\sigma = 34 \text{ MPa}$
compressibility ϵ KSW	[%]	DIN 28090 - 2	37	$\sigma = 20 \text{ MPa}$
recovery ϵ KRW	[%]	DIN 28090 - 2	4.8	$\sigma = 20 \text{ MPa}$
tensile strength	[MPa]	ASTM 152	14	room temperature
creep deformation	[%]	ASTM F38	40	
stress retention	[MPa]	DIN 52913	13	30 N/mm ² , 150 °C, 16h
sealability	[ml/h]	ASTM F 37	< 0.025	0.7 bar
Q min 0,01	[MPa]	EN 13555	19	HE 40 bar
Q smin 0,01	[MPa]	EN 13555	11.7	HE 40 bar
Q min 0,001	[MPa]	EN 13555	28	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	< 0.001	N ₂ , 40 bar, 32 MPa
specific leakage rate L	[mbar · l / (s · m)]	VDI 2440 / TA LUFT	$1.1 \cdot 10^{-5}$	He, 1 bar, 30 MPa

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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.