

# TEALON TF 1570

## Description:

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

## Advantages:

- **TEALON 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 **TEALON 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 **TEALON TF 1570** makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- **TEALON TF 1570** is quick and simple to install. The used gasket can be removed easily and without residue.

## Properties:

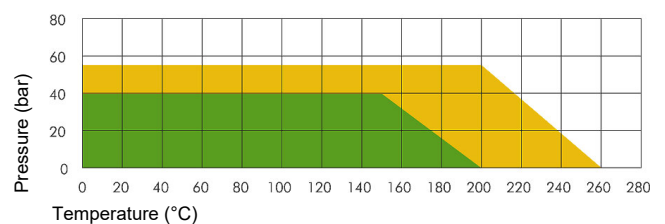
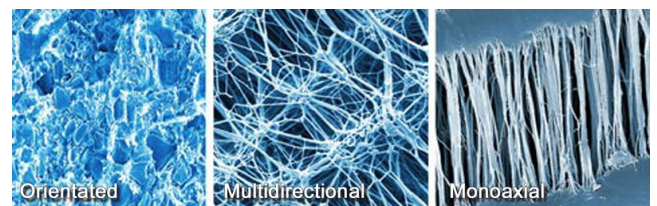
- Color: blue
- Size: Sheets of 1500 mm x 1500 mm
- Thickness: 1.5 mm up to 6.4 mm (other thicknesses on request)
- Temperature: -268 °C to +260 °C
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. It is not recommended for strong 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: **TEALON TF 1570** is not subject to ageing or weathering. It can be stored indefinitely.
- **TEALON TF 1570** complies to FDA requirements for food, is physiologically harmless and suitable for oxygen applications.

## Approvals:

- TA Luft
- Blow-Out
- FDA • USP Plastic Class VI
- ABS
- EC 1935/2004 • EU 10/2011

## Tests:

- BAM
- EN13555



## P x T diagram:

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-colored area shows the maximum application limits.

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 color of the actual product might vary from the above image on this data-sheet.

## TEALON TF 1570

Technical Parameters	Unit	TEALON TF 1570
Thickness	[mm]	0,50 - 6,40
Sheet dimensions	[mm]	1500 x 1500
Filler		Glass micro spheres
Color material		Blue
Color printing		Dark blue
Operating Temperature Range	[°C]	- 268 to + 260
Operating pressure	[bar]	Vacuum to 55
<b>Gasket factors acc. DIN28090-2</b>		
Compression (room temperature) $\epsilon$ KSW	[%]	>10
Creep relaxation (room temperature) $\epsilon$ KRW	[%]	>4
Compression (elevated temperature) $\epsilon$ VSW	[%]	<40
<b>Gasket factors acc. ASTM</b>		
Compressibility ASTM F 36M (34,5 MPa)	[%]	25 - 40
Recovery ASTM F 36M (34,5 MPa)	[%]	30
Creep ASTM F 38 (100 °C)	[%]	40
<b>Other Properties</b>		
Residual stress DIN 52913	MPa	15
Leakage rate TA Luft / VDI 2440	mbar*l/(s*m)	3,7*10-6
Leakage rate DIN 3535-6 (40bar, N2)	ml/min	<0,01
Tensile strength ASTM F 152	MPa	14
Gasket factor "m" ASTM		2 (for 2,0 mm)
Minimum gasket stress "y Stress" ASTM	psi	1500 (for 2,0 mm)

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