

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:

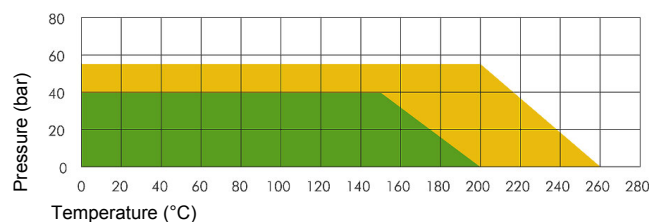
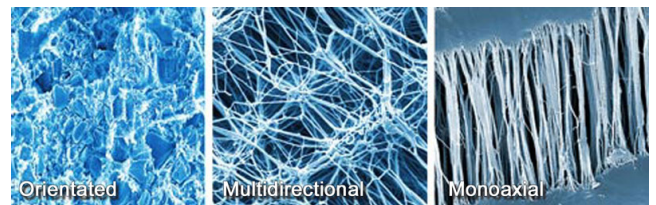
- Color: blue
- Size: Sheets of 1500 mm x 1500 mm
- Thickness: 0.5 mm up to 6.4 mm
- Temperature: -268 °C to +260 °C
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. It is not recommended for strong caustic service above 80°C. It 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
- ABS
- EU 1935/2004 • EU 10/2011

Tests:

- BAM



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.

TEADIT 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
Gasket factors acc. DIN28090-2		
Compression (room temperature) εKSW	[%]	>10
Creep relaxation (room temperature) εKRW	[%]	>4
Compression (elevated temperature) εWSW	[%]	<40
Gasket factors acc. ASTM		
Compressibility ASTM F 36M (34,5 MPa)	[%]	25 - 40
Recovery ASTM F 36M (34,5 MPa)	[%]	30
Creep ASTM F 38 (100 °C)	[%]	40
Other Properties		
Residual stress DIN 52913	MPa	15
Leakage rate TA Luft / VDI 2240	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)

Los parámetros de aplicación indicados en este folleto son típicos. Para cada aplicación específica deberá ser realizado un estudio independiente y una evaluación de compatibilidad. Consulten con relación a recomendaciones para aplicaciones específicas. Un error en la selección del producto más adecuado o en su aplicación puede resultar en daños materiales y/o en serios riesgos personales, siendo que Teadit no se responsabiliza por el uso inadecuado de las informaciones constantes en el presente folleto, ni por imprudencia, negligencia o impericia en su utilización, colocando sus técnicos a disposición de los consumidores para aclarar dudas y dar orientaciones adecuadas en relación a aplicaciones específicas. Estas especificaciones están sujetas a cambios sin previo aviso, siendo que esta edición substituye todas las anteriores