Sealing for a safer and greener tomorrow

Product information

REV201748

TEADIT 30 SH

Description:

TEADIT 30 SH **is a highly advanced, large gasket-sheet, produced from 100% pure, multi-directionally expanded PTFE, for extreme application conditions. The whole production process is subject to strictest quality control, registered under DIN EN ISO 9001 & 14001.**

Advantages:

- **The newly developed** TEADIT 30 SH **ePTFE gasket sheet provides - due to its much more homogeneous and considerably finer fibrillation - a drastically improved creep resistance compared to other ePTFE sheet materials, especially at elevated temperatures.**
- **With** TEADIT 30 SH**, it is possible to make flange calculations according to EN 1591-1 (2014 version) for all dimensions.**
- TEADIT 30 SH **is suitable for all types of flanges, nearly all media, a wide temperature range and particularly for applications with the toughest demands on purity.**
- TEADIT 30 SH **has exceptional mechanical strength which allows operation with minimal creep at elevated temperatures; see technical data on page 2.**
- **The excellent malleability of** TEADIT 30 SH **makes repairing of small defects and/or irregularities of the sealing area (flange surface) unnecessary.**
- **Gaskets cut from** TEADIT 30 SH **have remarkable mechanical strength and are dimensionally stable, i.e. do not get wider when compressed. This allows to seal narrow flange faces safely.**
- TEADIT 30 SH **is quick and easy to install. The used gasket can be removed effortlessly without residue.**

Properties:

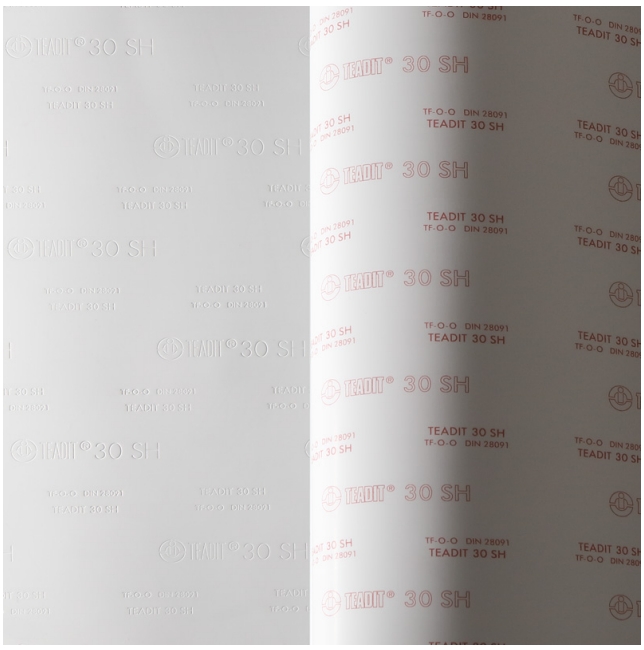
- **Color: white**
- **Size: 1500 mm x 1500 mm**
- **Thickness: from 0.5 mm up to 9.0 mm**
- **Temperature Range: -268 °C up to +260 °C (shortly +315 °C)**
- **Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. The only exceptions are molten alkali metals and elemental fluorine at high temperature and pressure.**
- **Operating pressure: from vacuum to 200 bar.**
- TEADIT 30 SH **is not subject to aging or weathering. It can be stored indefinitely.**
- **Suitable for oxygen applications.**
- **Typically** TEADIT 30 SH **sheets come printed in red color.**
- **For applications in the pharmaceutical or food industry, sheets can be delivered with embossed printing without any color.**

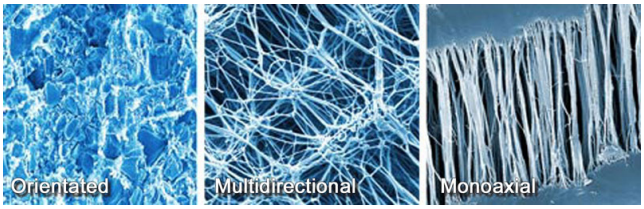
Approvals:

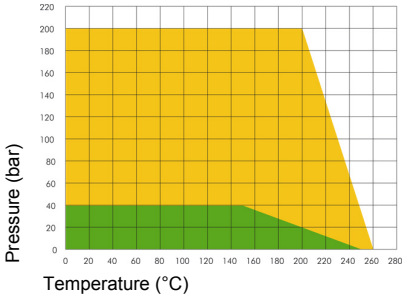
- **TA-Luft • Blow-out • FDA & EU1935/2004 &EU10/2011**
- **WRAS • DVGW • USP Class VI**

Tests:

- **BAM**







P x T diagram:

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

TEADIT®
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TEADIT 30 SH		
Technical Parameters	**Unit**	**TEADIT 30 SH**
Thickness	[mm]	0,50 - 9,00
Sheet dimensions	[mm]	1500 x 1500
Purity ePTFE	[%]	100
Color material		plain white
Color printing		red (or embossed)
Operating Temperature Range	[°C]	- 268 to + 260
Operating pressure	[bar]	Vacuum to 200
Gasket factors acc. DIN28090-2		
Compression (room temperature) εKSW	[%]	35 - 40
Creep relaxation (room temperature) εKRW	[%]	>3
Compression (elevated temperature) εWSW	[%]	<15
Gasket factors acc. ASTM		
Compressibility ASTM F 36M (34,5 MPa)	[%]	>45
Recovery ASTM F 36M (34,5 MPa)	[%]	>10
Creep ASTM F 38 (100 °C)	[%]	≤22
Other Properties		
Residual stress DIN 52913	MPa	>18
Leakage rate TA Luft / VDI 2240	mbar*l/(s*m)	8,3*10-7
Leakage rate DIN 3535-6 (40bar, N2)	ml/min	<0,01
Tensile strength ASTM F 152	MPa	>25
Gasket factor "m" ASTM		2
Minimum gasket stress "y Stress" ASTM	psi	2800