

TEADIT 24 SH

Description:

TEADIT 24 SH is a large gasket sheet produced from 100 % pure, multi-directionally expanded PTFE. The whole production process is subject to strictest quality control, registered under DIN EN ISO 9001 & 14001.

Advantages:

- Universally employable gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a wide temperature range and for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- Gaskets of multi-directionally expanded PTFE have exceptional mechanical strength which allows operation with minimal creep at elevated temperatures.
- The excellent malleability of **TEADIT 24 SH** makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- Gaskets cut from **TEADIT 24 SH** are dimensionally stable, i.e. they do not get wider when compressed. This allows narrow flange faces to be sealed safely.
- **TEADIT 24 SH** is quick and simple to install. The used gasket can be removed easily and without residue.

Properties:

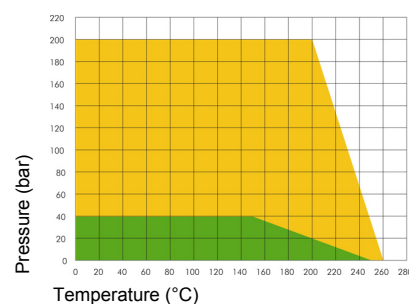
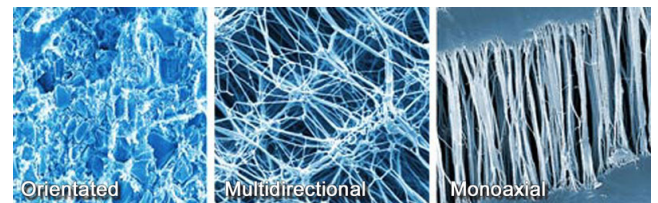
- Color: white
- Size: 1500 mm x 1500 mm
- Thickness: from 0.5 mm up to 9.0 mm
- Temperature range: -268 °C up to +260 °C (short +315 °C)
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. The only exceptions are molten alkali metals and elemental fluorine at high temperature and pressure.
- Operating pressure: from vacuum to 200 bar
- Aging: **TEADIT 24 SH** is not subject to aging or weathering. It can be stored indefinitely.
- **TEADIT 24 SH** complies to FDA regulations for food, it is physiologically harmless.
- Suitable for oxygen applications.
- Typically **24 SH** sheets come printed in red color.
- For applications in the pharmaceutical and / or food industry the sheets can be delivered with embossed printing without color.

Approvals:

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

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 24 SH		
Technical Parameters	Unit	TEADIT 24 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) ϵ_{KSW}	[%]	35 - 40
Creep relaxation (room temperature) ϵ_{KRW}	[%]	>3
Compression (elevated temperature) ϵ_{WSW}	[%]	<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	>15
Leakage rate TA Luft / VDI 2240	mbar*I/(s*m)	$8 \cdot 10^{-7}$
Leakage rate DIN 3535-6 (40bar, N2)	ml/min	<0,01
Tensile strength ASTM F 152	MPa	>20
Gasket factor "m" ASTM		2 (for 3,0 mm)
Minimum gasket stress "y Stress" ASTM	psi	2800 (for 3,0 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. Consúltenos 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