

## TEADIT 24SH

### Description:

TEADIT 24SH is a large gasket sheet produced from 100% pure, multi-directionally expanded PTFE (Polytetrafluorethylen).

### Advantages:

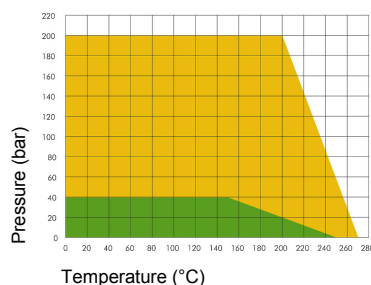
- Universally employable gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a wide temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- The compressed gasket of multi-directionally expanded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

### Approvals:

- TA-Luft
- Blow-Out-Test VDI 2200
- FDA / ISEGA
- USP Plastic Class
- Germanischer Lloyd Approval
- BAM

### P x T diagramm:

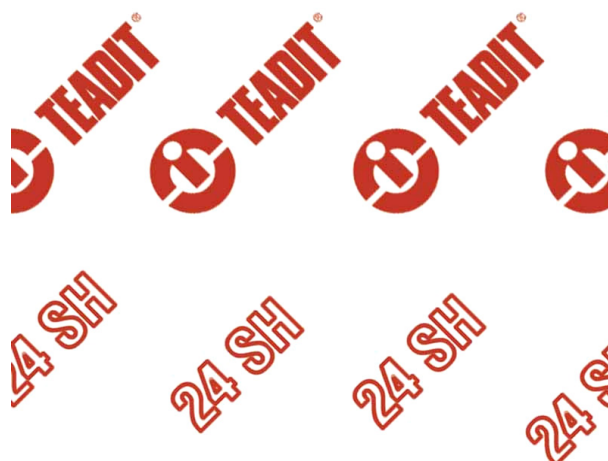
The P x T diagram above indicates the service limits considering the simultaneous influence of pressure and temperature (chemical suitability assumed). The green area represents the normal service limits, while the orange coloured area shows the maximum application limits.



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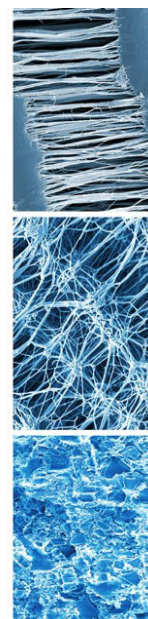
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### Properties:

- Colour: white
- Size: 1500mm x 1500mm
- Thickness: from 0.5 mm up to 6 mm
- Temperature range: -240°C up to +270°C for short periods up to 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 up to 200 bar
- Aging: TEADIT 24SH is not subject to aging or weathering. It can be stored indefinitely.
- Safety: TEADIT 24SH complies to FDA regulations for food, is physiologically harmless and is also suitable for oxygen applications.

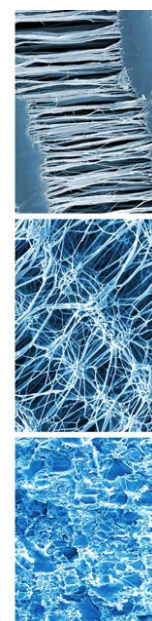
NO WAY THROUGH



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property	test method	nominal value	parameters
density [g/cm <sup>3</sup> ]	ASTM D 792	0.9	
compressibility [%]	ASTM F 36	45	$\sigma = 34 \text{ MPa}$
recovery [%]	ASTM F 36	14	$\sigma = 34 \text{ MPa}$
compressibility $\epsilon$ KSW [%]	DIN 28090 - 2	41	$\sigma = 20 \text{ MPa}$
recovery $\epsilon$ KSW [%]	DIN 28090 - 2	10	$\sigma = 20 \text{ MPa}$
tensile strength [MPa]	DIN 52910	29	room temperature
stress retention [MPa]	DIN 52913	15	30 N/mm <sup>2</sup> , 150 °C, 16h
Q min 0,01 [MPa]	EN 13555	23	HE 40 bar
Q smin 0,01 [MPa]	EN 13555	< 10	HE 40 bar
Q min 0,001 [MPa]	EN 13555	31	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
specific leakage rate L [mbar • l / (s • m)]	VDI 2440 / TA LUFT	$2.6 \cdot 10^{-7}$	He, 1 bar, 30 MPa

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