

## TEADIT 24SH

### Description:

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

### Advantages:

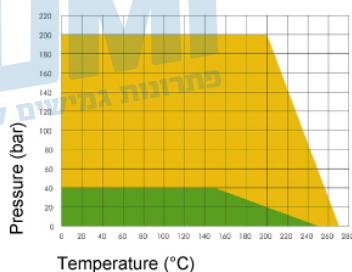
- Universally employable gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a wide temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- The compressed gasket of multi-directionally expanded 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
- 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.

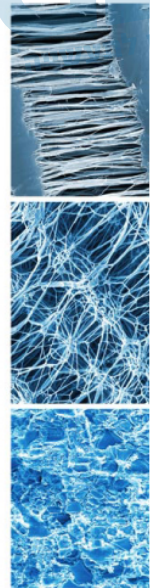


### Properties:

- 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.

Please note: the colour of the actual product might vary from the above image on this data-sheet.

NO WAY THROUGH



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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.

## Product information



05/230511

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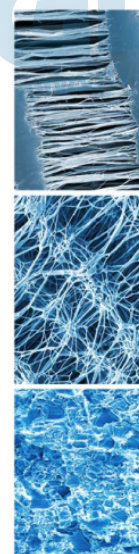
TEADIT 24 SH				
property		test method	nominal value	parameters
density	[g/cm <sup>3</sup> ]	ASTM D 792	0.9	
compressibility	[%]	ASTM F 36	45	$\sigma = 34 \text{ MPa}$
recovery	[%]	ASTM F 36	14	$\sigma = 34 \text{ MPa}$
compressibility $\epsilon$ KSW	[%]	DIN 28090 - 2	41	$\sigma = 20 \text{ MPa}$
recovery $\epsilon$ KRW	[%]	DIN 28090 - 2	10	$\sigma = 20 \text{ MPa}$
tensile strength	[MPa]	DIN 529 10	29	room temperature
stress retention	[MPa]	DIN 529 13	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		VDI 2440 / TA LUFT	$2.6 \cdot 10^{-1}$	He, 1 bar, 30 MPa
	[mbar · l / (s · m)]			

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