



## Product information

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# TEADIT 24SH-PRC - High purity pre-compressed ePTFE gaskets

### Description:

TEADIT **24SH-PRC** are pre-compressed pipe-line gaskets produced from 100% pure, multi-directionally expanded PTFE

The biocompatible gaskets are designed for use in the pharmaceutical and chemical industry

### Advantages:

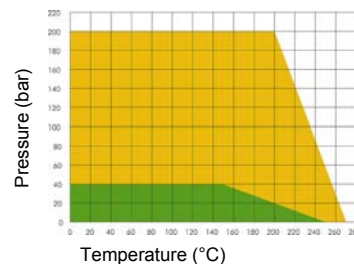
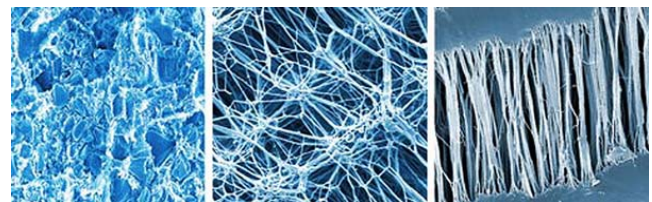
- Universally employable gaskets for all piping applications. Suitable for all types of flanges, nearly all media, a wide temperature range and for applications with the toughest demands on purity. They are inherently clean and non-toxic.
- TEADIT 24SH-PRC gaskets have exceptionally mechanical strength which allows operation with minimal creep at elevated temperatures.
- TEADIT 24SH-PRC gasket are dimensionally stable, i.e. they do not get wider when compressed. The pre-compression on the inner diameter increases the rigidity and sealability of the gaskets and reduces cross contamination and migration.
- TEADIT 24SH-PRC gaskets meet TA-Luft and VDI 2200 blow-out requirements.
- TEADIT 24SH-PRC gaskets are manufactured according to GMP requirements. FDA and EU 1935/2004 certificates issued by the Fraunhofer Institute confirm it's usability in the Food and Pharmaceutical Industry.
- TEADIT 24SH-PRC gaskets can be easily identified by the embossed labeling on the gaskets.
- TEADIT 24SH-PRC gaskets are not subject to aging or weathering. They can be stored indefinitely.

### Main Approvals:

- FDA and EU 1935/2004
- USP Plastic Class VI

### P x T diagramm:

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 coloured area shows the maximum application limits.



### Properties:

- Colour: white
- Thickness: 1,5 - 2,0 - 3,0mm
- Sizes: EN 1514-1 IBC and ASME 16.21 RF
- 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 temperatures and high pressure
- Operating pressure: from vacuum up to 200 bar


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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 $\epsilon$ KRW [%]	DIN 28090 - 2	10	$\sigma = 20 \text{ MPa}$
tensile strength [MPa]	ASTM F152	31	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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