

## Product information

01/051113

# TEADIT 28LS-LE - high-purity ePTFE gaskets with diffusion barrier

#### WRAS Approval No 2208564. 31/08/2027

#### **Description:**

**TEADIT 28LS-LE** is a new generation of gaskets produced from 100% pure, multi-directionally expanded PTFE. The biocompatible gaskets are designed for use in the pharmaceutical, chemical and food industry. A diffusion barrier ensures extraordinarily high sealability at very low gasket stress.

**TEADIT 28LS-LE** gaskets are therefore ideal for - but not limited to - sealing connections where only very low surface pressure can be applied, i.e on plastic or glass flanges.

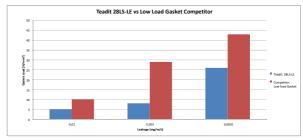
#### Advantages:

- 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 suitable for CIP/SIP cycling.
- **TEADIT 28LS-LE** gaskets have exceptional mechanical strength which allows operation with minimal creep at elevated temperatures.
- **TEADIT 28LS-LE** gaskets are dimensionally stable, i.e. they do not get wider when compressed. The diffusion barrier on the inner diameter significantly increases the sealability of the gaskets and reduces cross contamination and migration.
- TEADIT 28LS-LE gaskets are manufactured according to GMP requirements, with full supply chain integrity and traceability. FDA and EU 1935/2004 certificates, issued by the Fraunhofer Institute, confirm it's usability in the food and pharmaceutical Industry.
- **TEADIT 28LS-LE** gaskets can be easily identified by the embossed labelling, showing both type and dimension.
- TEADIT 28LS-LE gaskets are not subject to aging or weathering. They can be stored indefinitely.

#### **Properties:**

- Colour: white
- Thickness: 1.5 3.0mm and 6.0mm
- Sizes: EN 1514-1 and ASME 16.21
- 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
- · Operating pressure: from vacuum up to 200 bar





### 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.

#### Main Approvals:

- FDA 21 CFR 177.1550 and EU 1935/2004
- USP Plastic Class VI
- TA Luft and Blow Out Test

TEADIT 28LS-LE				
property		test method	nominal value	parameters
density	[g/cm <sup>3</sup> ]	ASTM D 792	0.9	
compressibility	ε KSW [%]	DIN 28090 - 2	41	σ = 20 MPa
recovery	ε KRW [%]	DIN 28090 - 2	10	σ = 20 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	< 5	HE 40 bar
Q smin 0,01	[MPa]	EN 13555	< 5	HE 40 bar
Q min 0,001	[MPa]	EN 13555	8	HE 40 bar
Q smin 0,001	[MPa]	EN 13555	8	HE 40 bar
Q smax		EN 13555	> 140	room temperature



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