

**PTFE gasket material** • structured PTFE sheets • multidirectionally exp. PTFE sheets • multidirectionally exp. PTFE tapes • monodirectionally exp. PTFE tapes • **Braided gland packings** • Carbon / Graphite packings • PTFE packings • PTFE / Aramid packings • Aramid packings • Glass packings • Acrylic packings • Ramie packings • Polyimid packings • Novoloid packings • Nomex packings • Preformed packing rings • **Compressed fibre sheets** • Carbon / Graphite / NBR • Aramid / NBR • Cellulose / NBR • **Graphite sheets** • Graphite sheets with plain metal insert • Graphite sheets with tanged metal insert • Pure graphite sheets • **Gaskets** • PTFE envelope gaskets • Cut gaskets • Gaskets with metal eyelets • Double jacketed gaskets • Spiral-wound gaskets • Kammprofile gaskets • Hand- and manhole gaskets • Tank lid gaskets • Braided gasket tapes • **Jampak** • Injection gun • Jampak injectable compounds • Seal-Cage-System • **Expansion Joints** • Metallic and Non-Metallic Expansion Joints • **Accessories** • Various packing cutters • Packing extractors • Circular gasket cutter • **and many more...**

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MARCH 2022 - TEADIT® 4603/137



## 28LS-LE - HIGH PERFORMANCE FLAT GASKET MADE OF EXPANDED PTFE WITH DIFFUSION BARRIER

For all types of flanges in the  
Chemical Process and Food & Pharma Industry



Sealing for a safer and greener tomorrow



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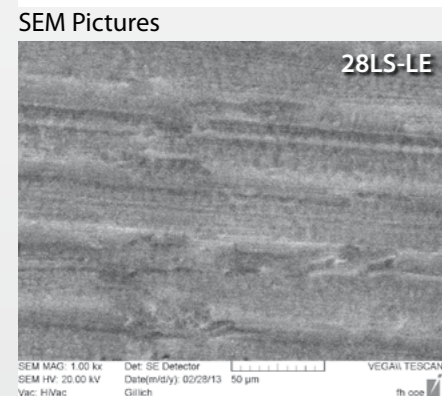
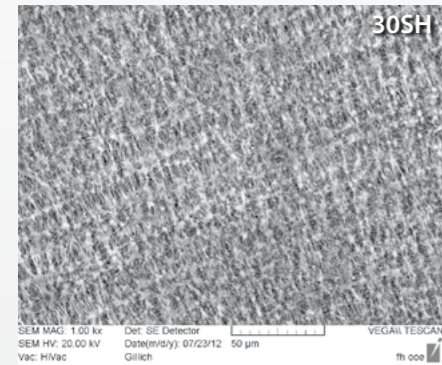


# TEADIT® 28LS-LE is a high performance flat gasket with maximum tightness at minimum gasket load!

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.

TEADIT® 28LS-LE is equipped with a diffusion barrier applied by a proprietary thermal and mechanical process. The inner bore of the TEADIT® 28 LS-LE gasket is enhanced with a diffusion barrier without any additional filler or other material, to avoid cross section leakage at low gasket stress.

Therefore TEADIT® 28 LS-LE achieves high tightness with low bolt load.



### ADVANTAGES KEY FEATURES

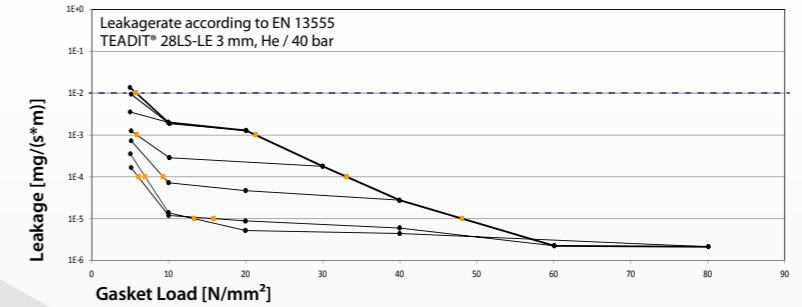
- Universally employable gaskets for all piping applications.
- Suitable for all types of flanges and nearly all media.
- Exceptional mechanical strength which allows operation with minimal creep at elevated temperatures.
- The diffusion barrier on the inner diameter significantly increases the sealability of the gaskets and stops cross contamination and migration.
- Manufactured according to GMP requirements, with full supply chain integrity and traceability. FDA and EC 1935/2004 certificates, issued by the Fraunhofer Institute, confirm its usability in the food and pharmaceutical Industry.
- Inherently clean and suitable for CIP/SIP cycling.
- GMP compliant and protected by a plastic bag from environmental contamination. Packaging printed with a batch number for material tracking.
- Gaskets can be easily identified by the embossed labelling.

- IDEAL FOR MANY FLANGE TYPES**
- Glass lined
  - FRP (fibre reinforced plastics)
  - Glass
  - Plastic
  - Also suitable for metal flanges

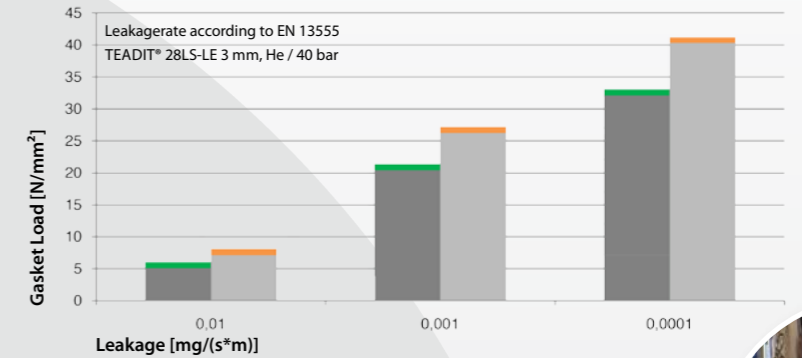
# TEADIT® 28LS-LE High-purity ePTFE gaskets with diffusion barrier

### Leakagerate

loading curve  
unloading curve  
Qmin/Qsmin

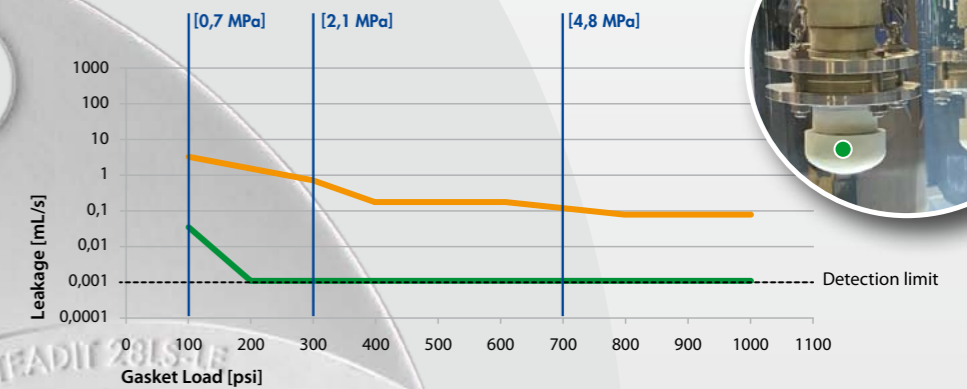


TA-Luft  
VDI 2290 specification



Leakagerate TEADIT® 28LS-LE (green) vs Low Load Gasket Competitor (orange)

Leakagerate TEADIT® 28LS-LE (green) vs ePTFE Material without diffusion barrier (orange)



# Low Stress for Low Emission



### MAIN APPROVALS

- FDA 21 CFR 177.1550, EC 1935/2004 and EU 10/2011
- USP Plastic Class VI
- TA Luft and Blow Out Test



### GMP COMPLIANT PACKAGING

- Max 2 gaskets in one plastic bag
- Plastic bags packed in a cardboard

### APPLICATION CONDITIONS

- Temp.** -268° C up to +260° C
- PH** 0-14 (exceptions are molten alkali metals and elemental fluorine)
- Press.** From Vacuum up to 200 bar

### STANDARD DIMENSIONS

- Thickness: 3.0 and 6.0 mm
- DIN EN 1514 DN10 - DN800 and PN 2,5 - PN 40 in IBC
- ASME B 16.21 #150 in 1/2" - 24" for RF & FF

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