

TEADIT 24 SH

Description:

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

TEADIT maintains a quality and environmental management system that is certified according to DIN EN ISO 9001 and DIN EN ISO 14001.

Advantages:

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

Properties:

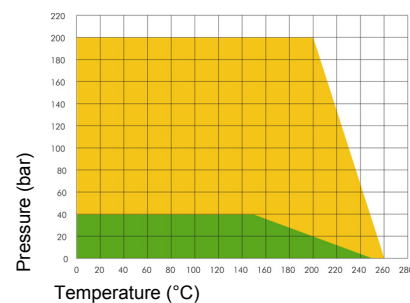
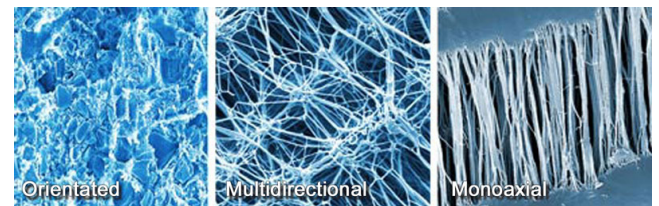
- Color: white
- Size: 1500 mm x 1500 mm
- Thickness: from 0.5 mm up to 9.0 mm
- Temperature range: -268 °C up to +260 °C (short +315 °C)
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. The only exceptions are molten alkali metals and elemental fluorine at high temperature and pressure.
- Operating pressure: from vacuum to 200 bar
- Aging: TEADIT 24 SH is not subject to aging or weathering. It can be stored indefinitely.
- TEADIT 24 SH complies to FDA regulations for food, it is physiologically harmless.
- Suitable for oxygen applications.
- Typically 24 SH sheets come printed in red color.
- For applications in the pharmaceutical and / or food industry the sheets can be delivered with embossed printing without color.

Approvals:

- TA-Luft
- Blow-Out
- FDA • EC 1935/2004 • EU 10/2011
- USP Plastic Class VI
- DVGW • WRAS • ABS

Tests:

- BAM



P x T diagram:

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 colored area shows the maximum application limits.



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

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| TEADIT 24 SH | | |
|------------------------------------------|--------------|---------------------|
| Technical Parameters | Unit | TEADIT 24 SH |
| Thickness | [mm] | 0,50 - 9,00 |
| Sheet dimensions | [mm] | 1500 x 1500 |
| Purity ePTFE | [%] | 100 |
| Color material | | plain white |
| Color printing | | red (or embossed) |
| Operating Temperature Range | [°C] | - 268 to + 260 |
| Operating pressure | [bar] | Vacuum to 200 |
| Gasket factors acc. DIN28090-2 | | |
| Compression (room temperature) εKSW | [%] | 35 - 40 |
| Creep relaxation (room temperature) εKRW | [%] | >3 |
| Compression (elevated temperature) εVSW | [%] | <15 |
| Gasket factors acc. ASTM | | |
| Compressibility ASTM F 36M (34,5 MPa) | [%] | >45 |
| Recovery ASTM F 36M (34,5 MPa) | [%] | >10 |
| Creep ASTM F 38 (100 °C) | [%] | ≤2 |
| Other Properties | | |
| Residual stress DIN 52913 | MPa | >15 |
| Leakage rate TA Luft / VDI 2440 | mbar*l/(s*m) | 2,6*10-7 |
| Leakage rate DIN 3535-6 (40bar, N2) | ml/min | <0,01 |
| Tensile strength ASTM F 152 | MPa | >20 |
| Gasket factor "m" ASTM | | 2 (for 3,0 mm) |
| Minimum gasket stress "y Stress" ASTM | psi | 2800 (for 3,0 mm) |

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