

Expanded PTFE Gasket Sheet Material

Construction:

24SH gasket sheet is manufactured by expanding 100% virgin PTFE using a proprietary process that produces a uniform and highly fibrillated microstructure with equal tensile strength in all directions. The resulting product exhibits characteristics significantly different than conventional PTFE sheet. This style is much softer and more flexible than regular PTFE sheet and thus conforms easily to irregular and rough surfaces. In addition, the material is easier to compress and minimizes creep and cold flow.

Application:

TEADIT® 24SH gasket material complies to FDA regulations for food contact and EU 1935/2004. 24SH is an all purpose gasket sheet that can replace all other types of PTFE sheet. It will seal all aggressive chemicals over the entire 0-14 pH range, except for molten alkali metals and elemental fluorine. Made from 100% virgin PTFE, it not only resists chemical attack, but it will not contaminate or discolor end products.

Expanded PTFE sheet material is common for applications in the following industries:

- Distillers
- Pharmaceutical
- Iron and Steel manufacturing
- Petrochemical
- General Chemical
- Pulp and Paper
- Food and Beverage
- Power Generation
- Marine

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. 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. TEADIT® 24SH is quick and simple to install. The used gasket can be removed easily and without residue.

Typical Physical Properties:

Temperature	Minimum:	-450°F (-268°C)
	Maximum Service:	500°F (260°C)
	Short Term Max.:	600° F (315° C)
Pressure	Vacuum up to:	2900 psi (200 bar)
Color		White
pH		0-14*
Density		0.9 g/cm ³

Compressibility - ASTM F 36 M	45%
Recovery - ASTM F 36 M	14%
Tensile Strength Across Grain - ASTM F152	>20 MPa
Stress Retention- DIN 52913	15 MPa
Specific Leakage Rate L- VDI 2440 / TA LUFT	2.6 X 10 ⁻⁷



Approvals:

- WRc
- FDA
- BAM
- TA-Luft
- Blow-Out Test VDI 2200
- Germanischer Lloyd
- EN 1935/2004
- AREVA

*except molten alkali metals and elemental fluorine at high temperature and pressure

Properties and application parameters shown throughout this data sheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice; this edition cancels all previous issues.

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