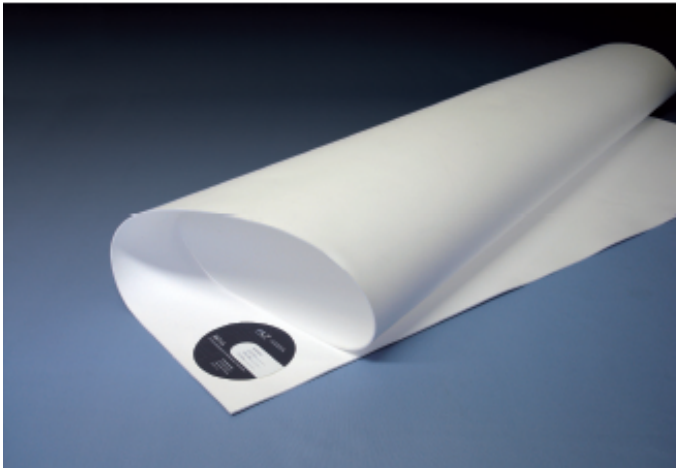


WT-A ePTFE Gasket Sheet

WT-A gasket sheets consist of 100 % pure virgin PTFE. The special stretching process used in manufacturing produces a multidirectional fibrous structure giving the material specific characteristics and properties. Even at elevated temperatures and higher surface pressures, WT-A gasket sheets show nearly no increase in width, have an extremely low creep and feature an exceptional adaptability to unevenness and damages on the flange surfaces.



Advantages and Possible Applications

Due to their universal resistance to chemicals, their pressure stability and their high adaptability, WT-A gasket sheets may be used in nearly all areas within the admissible temperature range.

They are used for flanges in frictional connection. The material is especially suitable for applications with limited bolt force, very uneven sealing surfaces and stress-sensitive components with flange materials such as enamel, graphite, glass, GRP, aluminum, etc.

Complex and precise gasket shapes may be cut or punched out of WT-A gasket sheets. Typical applications are gaskets for heat exchangers, agitators and pipeline flanges, and pressure vessels.

Technical Data

Chemical Resistance of the Sealing Material

pH 0-14 - resistant to all media apart from dissolved or molten alkali metals as well as elemental fluorine at higher temperatures and pressures.

Temperature Range of the Sealing Material

-240°C to +270°C, intermittent to 315°C

Physiological Inertness

Physiologically safe up to +260°C.

Resistance to Aging

Within the admissible range of application, WT-A gasket sheets are not subject to aging and thus may be stored indefinitely.

Recommended Operating Ranges

Pressure: Vacuum up to 40 bar
Temperature: -240°C to 230°C

Depending on the specific operating and assembly conditions, WT-A gasket sheets may be applicable at higher temperatures and pressures. We gladly advise you.

Tests and Certificates

Leakage rates certified according to „TA-Luft“ VDI 2440

FDA 21 CFR 177.1550

Technical Parameters

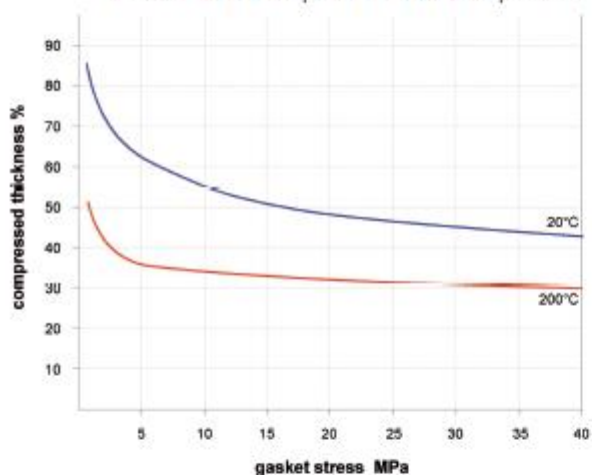
DIN 28090-1 $v_U(40\text{bar}; 0,01) = 26 \text{ Mpa}$
 $v_D = 150 \text{ MPa}$
 $BU = 5 \text{ MPa}$
 $KSW = 40\%$

AD-sheets B7 $k_0 \times k_D = 26 \times b_D \text{ N/mm}^2 \times \text{mm}$
 $k_1 = 2,4 \times b_D \text{ mm}$



Deformation of Gasket Thickness

Remaining thickness of the gaskets made from WT-A gasket sheets at different temperatures and surface pressures.



Delivery Form

WT-A gasket sheets are delivered in the standard dimension 1100 x 1000 (mm x mm)

Available thicknesses are:

0,5 / 1,0 / 1,5 / 2,0 / 3,0 / 4,0 / 5,0 / 6,0 / 7,0 / 8,0 / 9,0 / 10,0 mm

Other dimensions and punched gaskets are available on request.

Please note: All technical information and advice given is based on our previous experience to the best of our knowledge. However, this does not constitute any liability on our part. Given that only someone who is able to check all application conditions on site may reliably assess the performance of a product, specifications and values are always subject to revision by the user.

Handling and Assembly

- Punch gasket out of WT-A sheet or cut it to size.
- Remove any oil, moisture, solvents and other residues from the sealing surface.
- Very rough sealing surfaces should be padded with WT-B gasket tape in the area of the damage.
- Install gasket and gradually tighten nuts crosswise in three sequences.
- If required, retighten nuts to 2/3 of the assembly bolt force after the first temperature cycle.
- For stress-sensitive flanges, as of enamel, glass, graphite, etc, the max. torque resp. bolt forces stipulated by the manufacturer have to be observed. Retighten bolts after the first temperature cycle only at ambient temperature.

