

KWO-MultiTex ePTFE-Gasket Sheets



KWO-MultiTex ePTFE-Gasket Sheets consist of virginal, expanded PTFE.

By the **KWO**-manufacturing process, a multidirectional fibrous texture is produced which gives the gasket sheets their very special properties.

The materials especially show very low compression rates and low increase in width even under extreme conditions.

For various applications the **KWO-MultiTex** Gasket Sheets are available in diverse dimensions, heights and densities.



Product Data

Material

pure virginal PTFE, with expanded multidirectional fibrous texture.

Chemical Resistance

pH 0 to 14
resistant to all media, with the exception from solved and melted alkaline metals, as well as elementary fluorine at $T > 150^\circ\text{C}$ and $p > 40\text{ bar}$ ($T > 300^\circ\text{F}$ and $p > 580\text{ psi}$)

Resistance to Ageing

in the permissible area of application there is no ageing of **KWO-MultiTex** Gasket Sheets

Temperature Range

-240°C to $+270^\circ\text{C}$, intermittent to $+315^\circ\text{C}$
(-400°F to $+518^\circ\text{F}$, intermittent to $+600^\circ\text{F}$)

physiologically harmless

under continuous temperatures up to $+260^\circ\text{C}$ (500°F), in accordance with German BG No. 21; requirements according to FDA 21 are met

Pressure Range

the pressure range depends on installation- and working parameters - please refer to our installation- and maintenance manual

Specific Material Characteristics

values according to DIN 28090 please turn over

Examples of Application

Gasket Forms e.g.

- cut and punched Gaskets
- with complex geometries
- with precise dimensions
- for series production
- also for complete surface sealing
- for in-situ-cutting of gaskets

Components e.g.

- pipeline flanges
- pump- and stirring machine flanges
- apparatus
- heat exchangers

Flange materials e.g.

- FRP
- enamel
- glass
- ceramics
- graphite
- aluminium
- steel
- rubber coated materials

Tests and Certifications

BAM Tgb.-Nr. II-431/2000

for use in contact with gaseous oxygen in flanges from steel, copper and copper alloys up to pressures of 40 bar and temperatures of 160°C as well as for liquid oxygen at any pressure.

TÜV Test-No. AW6/3231-98

Product characteristics and production, voluntarily examined and monitored by TÜV Süddeutschland



KWO-MultiTex ePTFE-Gasket Sheets

Because of its multidirectional fibrous texture, **KWO-MultiTex** Gaskets show very good material characteristics at high surface pressures and increasing temperatures.

Even under extreme operating conditions there are very low changes in width and in height, compared to other PTFE materials.

By using gaskets made of **KWO-MultiTex** high surface pressures will be maintained also at high temperatures.

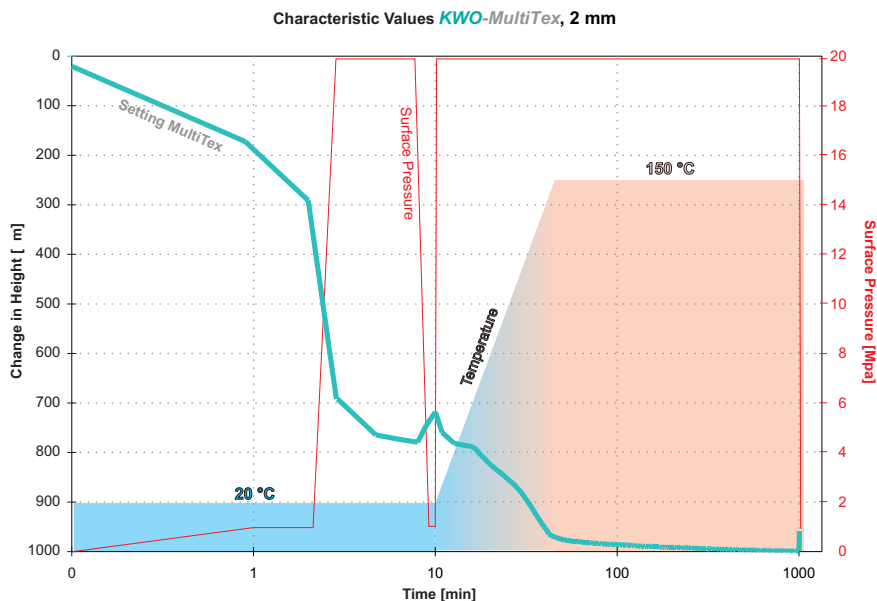
Characteristic values:
(DIN 28090 / DIN 28091-T3)

KWO-MultiTex: $K_{SW} = 23 \%$

$W_{SW} = 11 \%$

KWO-MultiTex-K: $K_{SW} = 26 \%$

$W_{SW} = 9 \%$

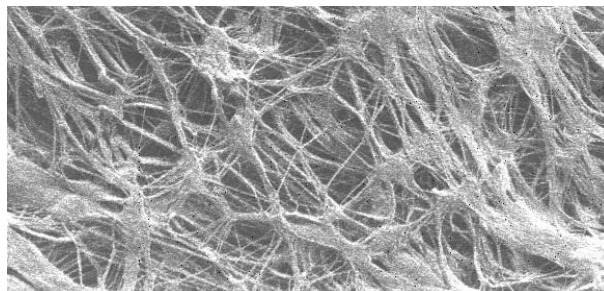


Form of Delivery

Standard Dimensions

KWO-MultiTex Gasket Sheets can be supplied in 1000 mm x 1600 mm.

KWO-MultiTex-K Gasket Sheets are the small version. They are available in 270 mm x 270 mm.



Thickness

Thickness [mm]	Article-Number MultiTex	Article-Number MultiTex-K
1,0	551610	502710
1,5 / 1,6	551615	502716
2,0	551620	502720
3,0	551630	502730
4,0	551640	502740
5,0	--	502750
6,0	--	502760

Nominal Density: 0,7 g/cm³

Other dimensions and densities are available on request.

General Information

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company. Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the on site operating conditions.

By its very special construction **KWO-MultiTex** ePTFE-Gasket Sheets show very low changes in width.

KWO-MultiTex is especially designed for highest safety requirements and for the application in critical joints such as flanges in oxygen pipelines.

Installation

- cut or punch **KWO-MultiTex**-materials
- sealing surfaces must be clean
- for partial underfilling of uneven surfaces **KWO-HD-E** can be used
- always tighten bolts evenly in stages up to the required surface pressure
- retighten bolts after reaching operating conditions (recommended surface pressure: $p_{BU} = 20 \text{ N/mm}^2$)

Quality Management

Our Quality Management System according to DIN EN ISO 9001 is the basis of our high quality - continuous improvement is thereby one of our most important goals.