coestan
SEALING TECH

DATA SHEET

EXPANDED PTFE SHEETS

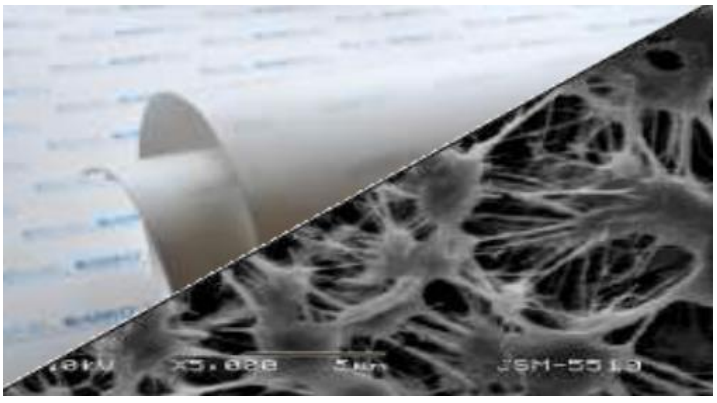
CHARACTERISTICS
Our Expanded PTFE Sheets are made from 100% pure multidirectional expanded PTFE, through unique technology for forming of special febrile structure with extreme mechanical strength and sealing parameters.

APPLICATION
Material is used for flange sealing in wide range of media like oils, petrol water, acids, etc. at temperature up to 260°C /peak temperature 315°C/. It is chemically inert against the most aggressive acids, except molten alkali metals and elemental fluorine. Sheets are used for cutting of gaskets and seals for fragile surfaces as glass, ceramic or glazed flanges. During the bolt tightening process of such flanges it is possible that they are damaged or broken in case the gasket is not soft enough.

Therefore, PTFE gasket sheets are preferred material for usage when there is risk of breaking the surface of the sealed parts. It is performing as an excellent decision for sealing of irregular surfaces, filling even smallest unevenness.

ADVANTAGES
Our Expanded PTFE Sheets are innovative material with perfect seal properties, which fully eliminates the effect of "cold flow". This guarantees long and reliable life of gaskets. Sheets are flexible, they can easily take the shape of sealed surface, which gives them big advantage for damaged flanges. Suitable for food and pharmaceutical industry, widely used in petrol, gas and chemical industries.

CERTIFICATES AND APPROVALS:
- ✓ ***USP class VI***
- ✓ ***BAM***
- ✓ ***DVGW***
- ✓ ***Regulation EC 10/2011***
- ✓ ***FDA***
- ✓ ***TA Luft VDI 2440***
- ✓ ***DIN 28090-1***
- ✓ ***HOBT 1, HOBT 2***
- ✓ ***ASTM F36***



TECHNICAL PARAMETERS

Dimension: 1500x1500mm (±20mm); 1000x1000mm
(smaller and bigger sizes upon request)
Thickness: 0.5; 1.0; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 9.0; 10.0mm
Working temperature: -240C ÷ 260C (peak temperature +3150C)
Compressibility: 56 ÷ 66% ASTM F36

Recovery: 18 ÷ 22% ASTM F36
*Leakage rate: **9.2 x 10**$^{-7}$ mbar.l/(s.m)*
TA Luft VDI 2440
Chemical resistance: 0 ÷ 14 pH

TECHNICAL DATA SHEET
QUALITY CONTROL

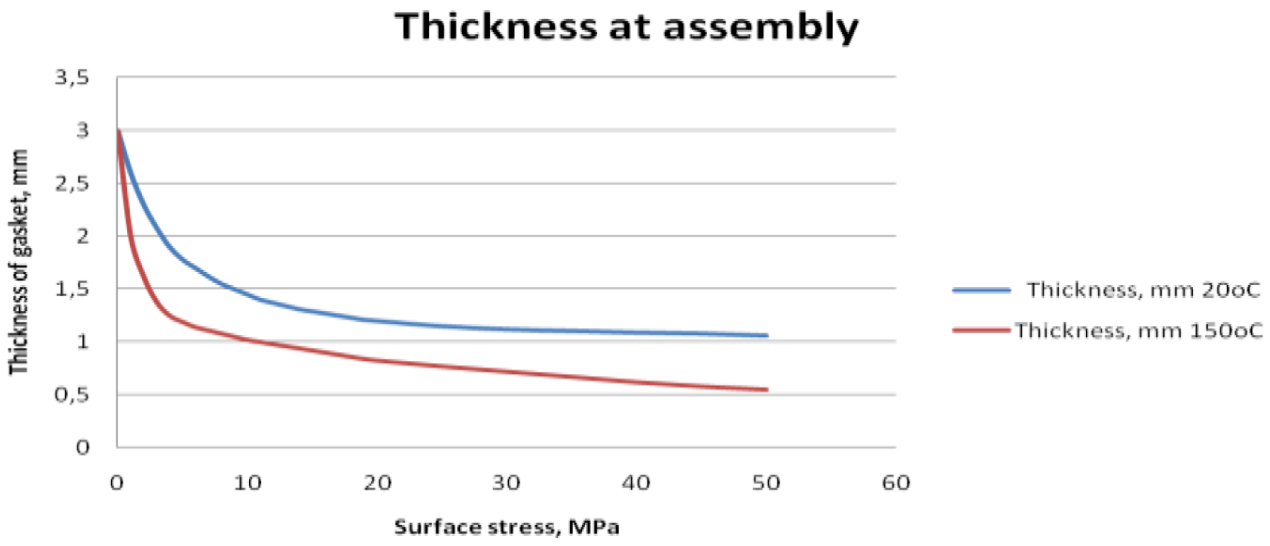
The whole production process is supervised in accordance with the Quality System ISO 9001, ISO 14001, OHSAS 18001.
***HUMAN HAZARDOUS**: Not registered*

Coestan can offer several variants of sheets varying in technical, commerce and other parameters.

Tightness Class, L	Standard	Value	Conditions
Q_{min} / $L_{0,01}$	*EN 13555*	*18*	*He 10 bar*
$Q_{S\ min}$ / $L_{0,01}$	*EN 13555*	*5*	*He 10 bar*
Q_{min} / $L_{0,01}$	*EN 13555*	*27*	*He 40 bar*
$Q_{S\ min}$ / $L_{0,01}$	*EN 13555*	*10*	*He 10 bar*
Q_{min} / $L_{0,0001}$	*EN 13555*	*33*	*He 10 bar*
$Q_{S\ min}$ / $L_{0,0001}$	*EN 13555*	*5*	*He 10 bar*
Q_{min} / $L_{0,0001}$	*EN 13555*	*38*	*He 40 bar*
$Q_{S\ min}$ / $L_{0,0001}$	*EN 13555*	*19*	*He 40 bar*

Data is related to gaskets with thickness 3mm.

***"m" and "y" values (2mm, 80bar): 2.5 and 20**(1)*



(1)For different pressure and tightness levels – please contact.

The information listed in this DS is based on our company's trials and experience. Coestan is not to be held responsible for poor installation or application in media combining complex of factors whose total exceeds the general qualities of the product. Coestan reserves the right to change the details given without notice. Our technical and sales representatives will assist any client in need of a product with a peculiar application.