



**CORTEX EXPANDED  
PTFE**

# Specification Sheet

## About the Product

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

<b>MATERIAL:</b>	Expanded PTFE
<b>COLOUR:</b>	White
<b>TEMPERATURE FROM:</b>	-240C
<b>TEMPERATURE TO:</b>	+315C
<b>COMPRESSIBILITY</b>	56 ÷ 66% ASTM F36
<b>QUALITY:</b>	CORTEX
<b>RECOVERY</b>	18 ÷ 22% ASTM F36
<b>LEAKAGE RATE:</b>	9.2 x 10 <sup>-7</sup> mbar.l/(s.m) TA Luft VDI 2440
<b>CHEMICAL RESISTANCE</b>	0÷14pH

### QUALITY CONTROL

The whole production process is supervised in accordance with the Quality System ISO 9001, ISO 14001, ISO 45001.

**HUMAN HAZARDOUS:** Not registered

### CERTIFICATES AND APPROVALS:

USP class VI	TA Luft VDI 2440
BAM	IN 28090-1
egulation EC 10/2011	HOBT 1, HOBT 2
FDA	ASTM F36

### Thicknesses Available

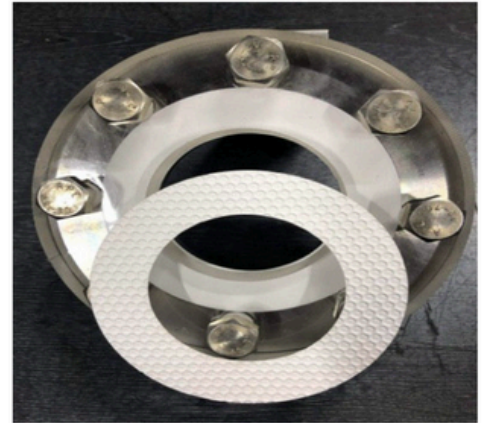
0.5mm	1500x 1500 mm
1.0mm	1500x 1500mm
1.5mm	1500x 1500 mm
2.0mm	1500x 1500 mm
2.5mm	1500x 1500 mm
3.0mm	1500x 1500 mm
4.0mm	1500x 1500 mm
5.0 mm	1500x 1500 mm

QUALITY ASSURED PRODUCTS WITH FULL TRACEABILITY

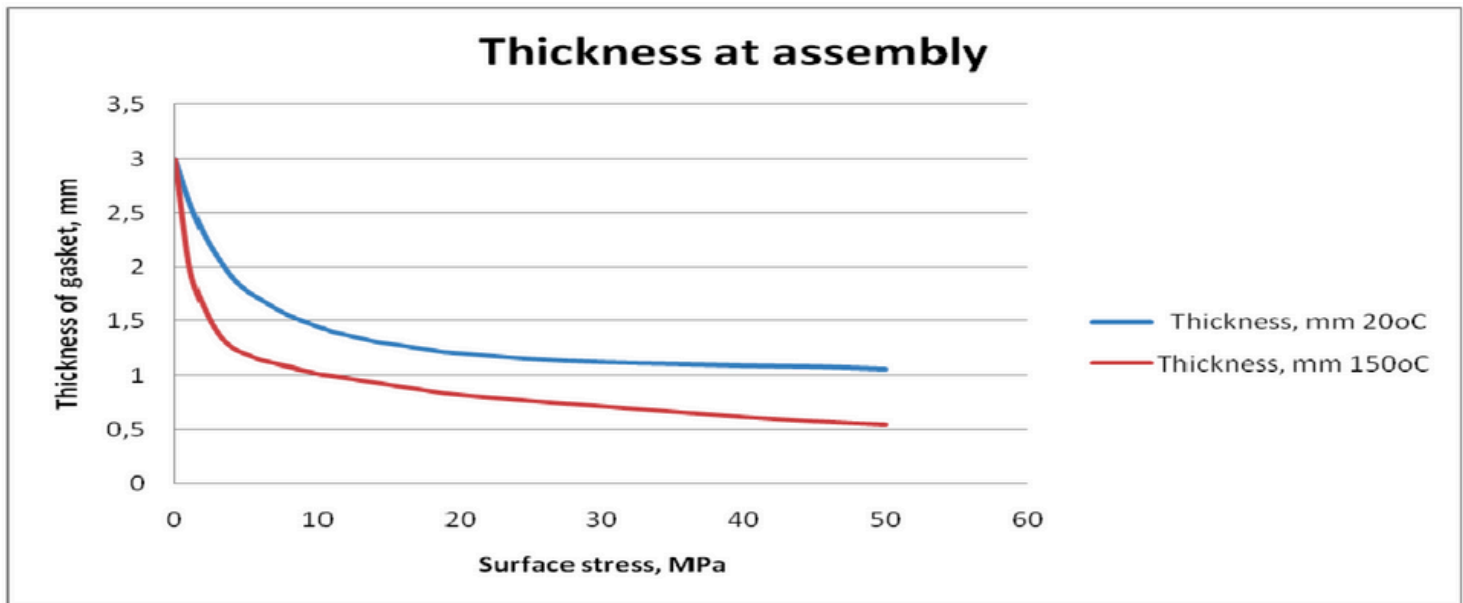
Care should be taken in selecting the most suitable quality for each application. Advice is available but final responsibility remains with the customer.

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 40 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<sup>(1)</sup>



The information listed in this data Sheet is based on our company’s trials and experience. CORSEAL 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. Corseal reserve 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.