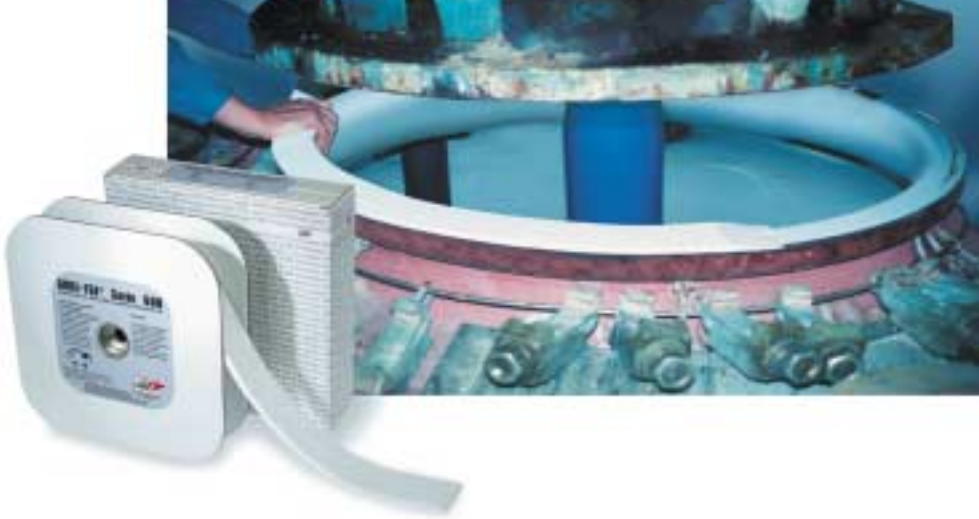




# GORE-TEX® Series 600 GASKET TAPE

Sealing with Certainty™



## Protects against chemical attack

GORE-TEX® Series 600 gasket tape is the gasketing solution on a spool for glass-lined equipment. Unlike the majority of PTFE envelope gaskets, GORE-TEX® Series 600 gasket tape does not degrade due to chemical attack and consequently ensures a tight and long-lasting seal. Because the tape is supplied on a spool, installation is quick and easy.

GORE-TEX® Series 600 gasket tape is the ideal choice for sealing steel glass-lined equipment. Made from 100% virgin PTFE, the distinguishing features of the gasket are its multi-directionally orientated fibrous structure and excellent chemical resistance. As a result, sealing problems associated with aggressive media, or the outside environment, become a thing of the past. When compressed the gasket tape conforms well to the imperfections common in glass-lined flange surfaces while maintaining its width due to its multi-directional strength. Any irregularities larger than one millimetre are simply compensated by overlaying additional layers of gasketing material.

The time-saving installation and, in the case of severe irregularities, shimming procedures mean that the apparatus can go back into operation as soon as installation is complete. Consequently, productivity gains can be achieved as a result of the apparatus being available again quickly and the risk of a standstill being minimised.

## Technical Data

### Material

ePTFE with a multi-directionally orientated fibrous structure; made from 100% virgin PTFE; free of lung-damaging particles

### Temperature Range

-240°C to +270°C;  
for short periods to +315°C

### Optimum Operating Range

-240°C to +220°C;  
full vacuum to 6 bar\*

\*higher pressures are possible;  
please consult the GORE associate responsible.

### Chemical Resistance

Resistant to all media in the pH range 0 to 14, except for molten or dissolved alkali metals and elemental fluorine at high temperatures and pressures.

### Resistance to Ageing

Within the permitted operating range the product is not subject to ageing.

The bonding strength of the adhesive strips can decrease slightly when the tape is stored for longer than a year.

### Physiological Safety

Physiologically harmless in prolonged installation at temperatures up to +260° according to VDI/VDE guideline 2480; complies with FDA 21 CFR 177.1550 (PTFE) for contact with food.

## GASKET TAPE FOR GLASS-LINED STEEL EQUIPMENT FLANGES

### Key Features

- ePTFE with a multi-directionally orientated fibrous structure
- Made from 100% virgin PTFE
- Resists creep and cold flow
- Wide temperature range
- Easy to install and overlay
- Dimensionally stable
- Highly conformable
- Physiologically harmless

### Key Benefits

- Superior sealing reliability in operation
- Reduces installation costs
- Can be used with virtually any media
- Retains stress for minimum retorque
- FDA conformity

### Typical Applications

- Glass-lined mixer vessels
- Glass-lined columns
- Glass-lined storage tanks and receiver tanks



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## Typical Properties \*\*

- AD code of practice B7  
 $k_0 * k_D = 24.5 * b_D$   
 $k_1 = 2.5 * b_D$
- DIN 28090  
 Minimum stress-to-seal

Parameter	
DIN $\sigma_{VU}$ (40 bar, 0.01 mg (m*s))	24.5 MPa
DIN $\sigma_{VU}$ (6 bar, 0.01 mg (m*s))	20 MPa
DIN $\sigma_{BU}$	5 MPa

\*\* Above properties refer to 3 mm thickness.

Maximum stress-to-seal  
 DIN  $\sigma_{VO} = 150$  MPa

- ASTM and PVRC parameters (design codes) are available on request.

## Availability

Width (mm) \ Thickness (mm)	Thickness (mm)		
	3	6	9
40	x	x	x
55	x	x	x
65	x	x	x

■ available on 2.5 and 5 m spools

■ available on 5, 10 and 15 m spools

## Availability

The gasket width selected should be such that after installation the inside of the gasket tape ends roughly in line with the inside of the equipment. Along the outside diameter of the flange the tape should protrude at least 3 mm.

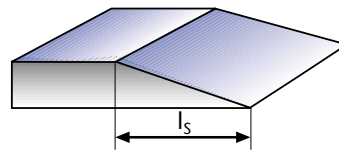
For equipment measuring up to 800 mm in diameter, we recommend 6 mm thick GORE-TEX® Series 600 gasket tape and for even larger equipment 9 mm thick gasket tape. If any irregularities are > 1 mm, the 9 mm thickness must always be used and then shimmed. In the case of irregularities over 1 mm, every additional millimetre of irregularity needs to be compensated using 3 mm thick tape.

## Installation

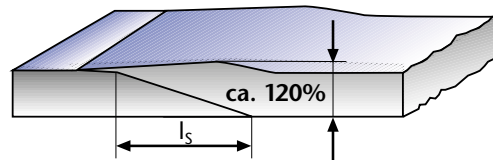
The gasket tape has an adhesive strip for easy installation.

To ensure optimum adhesion, the sealing surfaces must be totally free of grease and other residue.

The end of the gasket tape is cut using the skiving technique shown in the figure below. The tape is then fitted round the circumference of the flange. The other end is placed over the skived end and any excess cut off at an angle so that at the overlap the total thickness is approximately 120% of the original gasket thickness.



Thickness (mm)	3	6	9
$l_s$ (mm)	15-25	25-35	30-40



## Torquing

The torque values recommended by the manufacturer of the glass-lined equipment should be observed at all times.

We recommend retorquing once after the first temperature cycle.

Retorquing should be carried out at room temperature only!

**Should you require more detailed information we would advise you to look at our separate installation instructions.**

## Quality Assurance

The GORE Quality Control system is certified according to DIN EN ISO 9001 by DQS.

This form is the basis of the high level of quality of GORE sealants. Component suppliers are also integrated into this system.



## Ordering text

GORE-TEX® Series 600 gasket tape, thickness (mm); width (mm); length (m)

Authorised Distributor:



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All the technical information and advice given here is based on our previous experiences. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check these details and results, since the performance of a sealant can only be judged when all the necessary operating data are available. Our product specialist would be glad to help you.

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