GORE® Joint Sealant DE

Gasket for irregularly shaped flanges

Outstanding sealing reliability

GORE® Joint Sealant DE has a uniform density over the whole cross section in combination with a high profile. By choosing the correct size it is possible to achieve a tight seal in many applications including those where the flange faces are badly pitted.

To facilitate installation on the flange face the sealant carries an adhesive backing strip.

Sizes DE 10 to DE 40 are particularly suitable for narrow flanges and very uneven surfaces with low boltloads under low pressure (e. g. air or air-conditioning plant).

Sizes DE 04 and DE 06 have been specially developed for sealing installations with smooth surfaces (e. g. pump casings).

Technical data

Material

100 % expanded PTFE (ePTFE) with monodirectionally oriented fibril structure.

Temperature range of the material

-268 °C to +315 °C/-450 °F to +600 °F

Chemical resistance

Resistant to all media (pH 0 – 14), except for molten or dissolved alkali metals and elemental fluorine particularly at high temperatures and pressures.

Stability

Not subject to ageing within the material's temperature range, UV-resistant and can be stored indefinitely.
Storage of more than 12 months after delivery of the product may result in decline of adhesive strength.

Physiological safety

Physiologically harmless within temperature range of material.
FOR INDUSTRIAL USE ONLY.
Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

Operating range

The maximum applicable pressure as well as the maximum safe operating temperature depend mainly on the equipment. Standard pressures range from full vacuum to 40 bar.

Sealing Values

(for pressures up to 40 bar):

- $K_o \times k_D = 22{,}0 \times b_D$
- $k_1 = 1{,}6 \times b_D$

Typical Applications

Flange Types

- Flat flanges
- Tongue and groove flanges (be careful of power series connection or mounting)
- Narrow raised-face flanges

Equipment

- Agitators, pumps, tank farms, machine housings, covered receptacles, sight glasses, air and air-conditioning plant

Sealing Faces/Flange Material

- Aluminium, graphite, GRP, steel

Quality Assurance

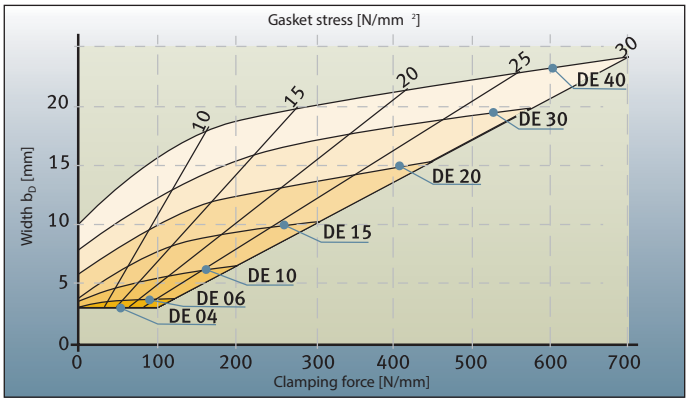
This forms the basis of the high level of quality of GORE products. The GORE Quality Control system is certified according to ISO 9001 by DQS. Component suppliers are also integrated into this system.

Quality Management DQS ISO 9001:2000
REG. NR. 3567-01
by W. L. Gore & Associates GmbH certified according to DIN ISO 9001:2000

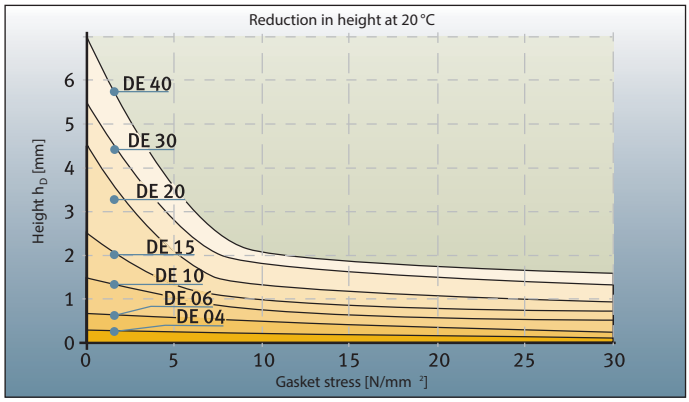
GORE Joint Sealant DE

Compression data DE

Increase in width at 20 °C



Reduction in height at 20 °C



Selection Recommendations

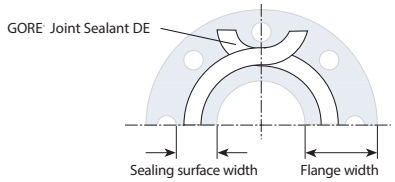
Type	Availablility meters/spool			Sealing of flanges with minimum gap requirements	Sealing surface width	Nominal dimensions of the sealant w x h [mm]
	10	25	50			
DE 04		X	X	very smooth sealing surfaces, minimal imperfections, e. g. on pump casings	> 3 mm	3,2 x 0,3
DE 06		X	X	normal sealing surfaces, minimal imperfections e. g. on used pump casings	> 3 mm	3,2 x 0,7

Type	Availablility meters/spool			Gasket size recommendation according to flange diameter for common flanges	Sealing surface width	Nominal dimensions of the sealant w x h [mm]
	10	25	50			
DE 10		X	X	small components, good sealing surfaces	up to 15 mm	4,0 x 1,5
DE 15		X	X	standard flanges, rough flange faces, up to nominal width 500 mm	15 – 20 mm	4,0 x 2,5
DE 20		X	X	standard flanges, slightly distorted, sealing surfaces, with nominal width 500 to 1000 mm	20 – 30 mm	6,0 x 4,6
DE 30		X	X	standard flanges, very uneven flanges, nominal width 1000 to 1500 mm	30 – 40 mm	8,0 x 5,5
DE 40	X	X	X	warped flanges and/or with severely defective sealing surfaces, nominal width > 1500 mm	> 40 mm	10,0 x 7,0

Depending on the condition of the flange and sealing surface, a larger or smaller sealant size may be used.

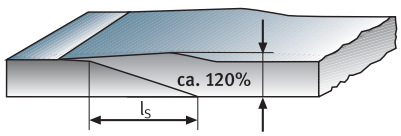
Installation with overlap

Clean flange faces; begin by laying sealant in front of a bolt hole.
For DE 10 to DE 40 when gasket stress >20 N/mm ² is available.
Always overlap DE 04 and DE 06.



Installation with skive cut

Clean flange faces; begin by laying sealant in front of a bolt hole.
For DE 10 to DE 40 where gasket stress is less than 20 N/mm ².



Ordering Details

Type, total quantity, number of spools.

For detailed selection criteria, techn ical information, installation guideline and a complete listing of local sales offices please visit gore.com/sealants

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