



# GORE™ Joint Sealant DF



## Gasket for large diameter flanges OUTSTANDING SEALING RELIABILITY

GORE™ Joint Sealant DF is engineered for the reliable sealing of large, complex or damaged flanges.

GORE™ Joint Sealant DF is made from virgin, mono-directionally expanded PTFE (ePTFE). After compression this gasketing material forms a thin sealing film that is highly resistant to creep and cold flow.

This produces a durable gasket which reduces the risk of leakage, unplanned downtime and loss of output. Installation of GORE™ Joint Sealant DF is extremely easy. The gasket is simply stuck onto the flange surface with the ends overlapped. Time spent on installation is thus reduced to a minimum.

The GORE™ Joint Sealant DF ensures an effective, enduring, and cost-effective seal, making a valuable contribution towards keeping your production and manufacturing processes optimised.

### TECHNICAL DATA

#### MATERIAL

100% expanded PTFE with a mono-directionally oriented fibrous structure. The material is asbestos-free and contains no lung-damaging components.

#### TEMPERATURE RANGE OF THE MATERIAL

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

#### CHEMICAL RESISTANCE

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

#### RECOMMENDED OPERATING RANGE

- T < 150°C\*
- p = full vacuum – to 40 bar\*

#### RESISTANCE TO AGEING

Within the permitted temperature range of the product the ePTFE is not subject to ageing.

#### PHYSIOLOGICAL SAFETY

Physiologically harmless in prolonged installation at temperatures up to +260°C according to VDI/VDE guideline 2480; complies with FDA 21 CFR 177.1550 (PTFE) and 21 CFR 175.105 (adhesive) for contact with food.



### KEY FEATURES

- 100% expanded PTFE
- Chemically resistant
- Temperature resistant
- Resistant to creep and cold flow

### KEY BENEFITS

- Reliable sealing performance
- Supports process optimization
- Wide range of applications, can be used with virtually any media
- Easy to install
- No wasteful scrap

### TYPICAL APPLICATIONS

- Large and complex flange dimensions
- Damaged flanges
- Aggressive media

### TESTS AND CERTIFICATES

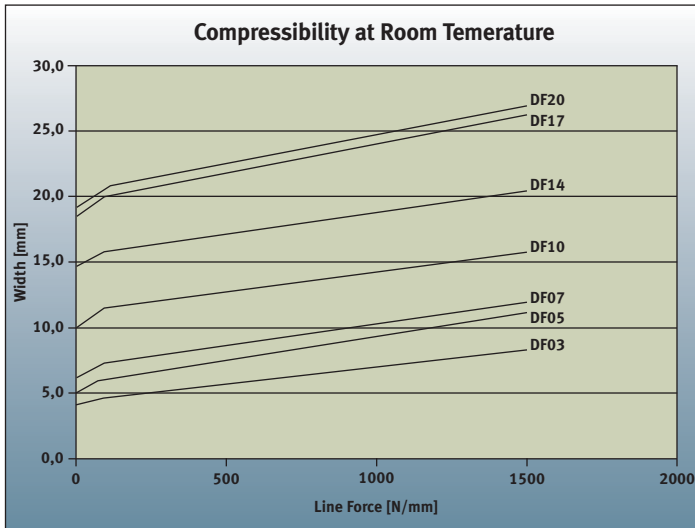
- According to EN 13555
- BAM
- TA Luft
- DVGW
- Latest US standards

\* These figures depend on the individual application; should you have any questions regarding use at higher pressures and temperatures please consult the Gore specialists responsible.





# GORE™ Joint Sealant DF



## LINE FORCE [ $Q^*_{\min(L)}$ ] AT INSTALLATION

$Q^*_{\min(L)}$ [N/mm]	DF03	DF05	DF07	DF10	DF14	DF17	DF20
$L_{0,1}$	95	139	181	252	336	418	431

$L_{0,1}$  corresponds to leakage class  $L_{0,1}$  [mg/s\*m].

Our technical bulletins about the product provide further details.

In order to get required installation force, simply multiply line force with length of the GORE™ Joint Sealant DF.

Gasket Parameters/USA

$M = 1,5$     $Y = 2500$  psi

## TESTS

GORE™ Joint Sealant DF has been tested by BAM for application with oxygen. It is suitable for use in applications with gaseous oxygen at a maximum pressure of 40 bar and a maximum temperature of 60 °C.

The gasket has also been tested by DVGW.

For detailed Information and test reports please consult Gore at the address shown below.

Supplied by: \_\_\_\_\_

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. Specifications are subject to change without notice.

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## OUTSTANDING VERSATILITY

GORE™ Joint Sealant DF withstands temperatures from -240°C to +270°C, seals internal pressures from full vacuum to 40 bar and is unaffected by most chemicals (except molten alkali metals and elemental fluorine). It's ideal for cryogenic applications and is FDA/USDA-suitable for use in food processing and pharmaceutical industries. You can use it just about anywhere. And, it lasts indefinitely, when used within its operating parameters.

## AVAILABLE SIZES AND SIZE SELECTION

Type	Nominal		Length Per Spool [m]				For standard flanges up to nominal bore NB
	Width	Thickness	5	10	25	50	
	(mm)	(mm)					
DF01*	1	1,0					
DF03	3	1,5					< 50
DF05	5	2,0					< 200
DF07	7	2,5					< 600
DF10	10	3,0					≤ 1500
DF14	14	5,0					> 1500**
DF17	17	6,0					> 1500**
DF20	20	7,0					> 1500**
DF25	25	9,0					> 1500**

\* Not supplied with an adhesive backing strip.

\*\* For standard flanges over NB 1500 or in the case of severe irregularities.

## QUALITY ASSURANCE

The GORE Quality Management System has been certified by DQS in accordance with DIN ISO 9001. Component suppliers are also integrated into this system.



## ORDERING TEXT

GORE™ Joint Sealant DF, width (mm), spool length (m), number of units

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