Philippe Jans Cleanflon Sheet Gasketing

Multidirectionally expanded PTFE Sheet Gasketing

Cleanflon - Gasket Sheets are made from 100% pure, multidirectionally expanded PTFE.

It consists solely of highest grade PTFE resins that offer an almost unlimited chemical resistance.

During installation, gaskets made from **Cleanflon** sheets adapt perfectly to flange roughness, unevenness and usual irregularities of used flanges.

In service, stressed with temperature cycling and external forces, **Cleanflon** keeps high gasket stress and forms an optimum tight gasket with high blow-out safety.

With **Cleanflon** gaskets you can cover a wide range of metal flange shapes in highly demanding aggressive, as well as high purity, “clean” applications.

Typical Applications

Components
Large diameter standard flanges, piping systems, apparatus flanges, complex geometries

Flange Types
Steel flanges and high grade FRP components

Media
Highly agressive chemicals, all media in food and pharma applications (**Cleanflon** sheet gasketing is free of colorants or fillers)

Key Features

- 100 % pure multidirectional expanded PTFE
- easy manufacture into all gasket shapes
- chemically inert (except for molten or dissolved alkali metals and elemental fluorine gas - please contact our technical service for questions)
- suitable for high temperatures
- higher rigidity and stiffness
- highly conformable to the sealing surface
- reliably tight and blow-out safe
- resistant to ageing
- reduces service and operating costs

Technical Data

Material
100 % pure multidirectionally expanded PTFE

Temperature Range of the material
-240°C to +270°C, transient to +315°C

Chemical Resistance
resistant to all media in the range of pH 0 to 14, except for molten and dissolved alkali metals and elemental fluorine gas at high temperatures and pressures

Recommended Operating Range
Vacuum up to 40 bar*
at -240°C to +230°C*

Tests and Certificates
proven according to TA-Luft (VDI 2440 / 2290) up to 230 °C
conforming to FDA 21 CFR 177.1550 (PTFE)

* depending on the individual application

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Sheet Gasketing

Available Sizes

Type	Size [mm]	Size [mm]	Thickness [mm]
Cleanflon 05	1000 x 1000	1500 x 1500	0,5
Cleanflon 10	1000 x 1000	1500 x 1500	1
Cleanflon 15	1000 x 1000	1500 x 1500	1,5
Cleanflon 20	1000 x 1000	1500 x 1500	2
Cleanflon 30	1000 x 1000	1500 x 1500	3
Cleanflon 60	1000 x 1000	1500 x 1500	6

Choice Recommendation

1,5 mm thickness in new piping systems up to DN 300 / 12”

2 mm thickness in standard flanges with good sealing surface

3 mm thickness in flanges and flange-like joints with tolerable unevenness and roughness

Assembly

Clean sealing surface completely. Remove any dirt, corrosion, grease or left-over from old sealing materials.

Position gasket to the middle of the sealing surface and torque bolts hand-tigh. At least 4 progressive torque sequences with a torque wrench should follow, until you reach the recommended gasket stress (follow sequence principle as shown in fig. 01).

Perform a circular torque check before start-up of the equipment.

Always follow the state-of-the-art guidelines for gasket assembly as well as the recommended torque for your sealing system.

If you need idividual calculations for special equipment or non-standard gasket sizes contact FluorTex® Technical Support.

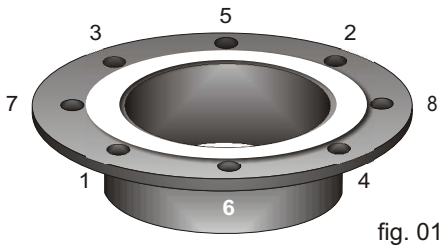
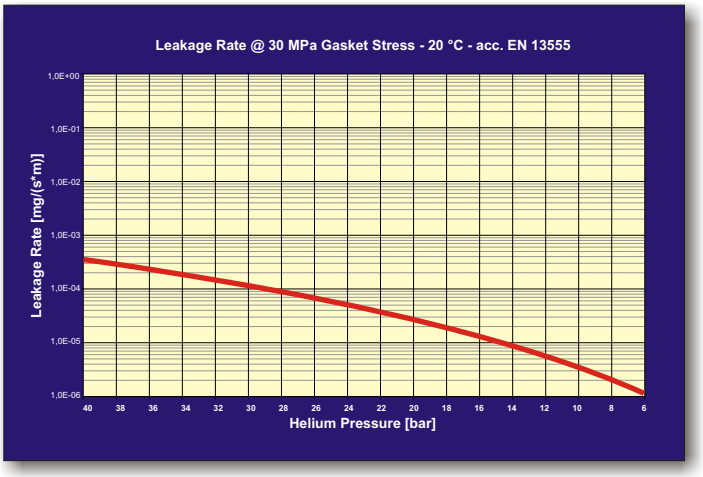
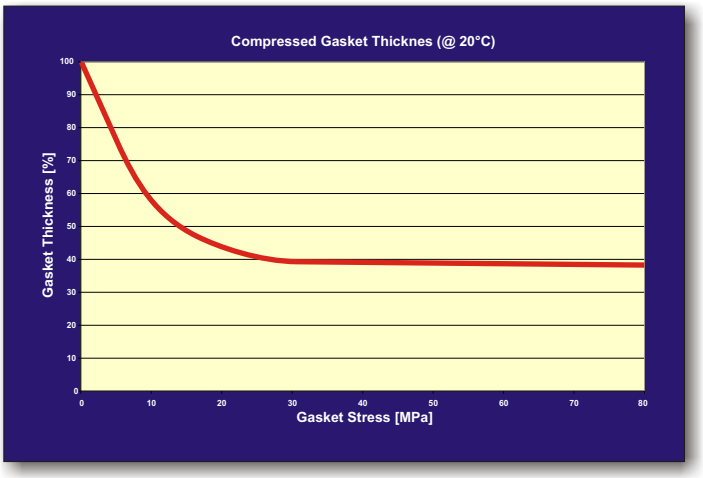


fig. 01

Characteristics





Properties

EN 13555 (2 mm Thickness)

min. gasket stress at assembly:
Q_{min} (40 bar He; 0,01 mg/(s*m)) = 20 MPa

min. gasket stress in service:
Q_{Smin} (Q_A=30 MPa; 40 bar He; L=0,01) < 10 MPa

Due to the unique structure of the gasketing material, **Cleanflon** gaskets are highly resistant to creep relaxation. They contain no binders, fillers or additives. The multidirectional structure of **Cleanflon** ePTFE sheet gasketing results in a high reliability in service.

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company. Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the on site operating conditions. Detailed selection criteria, technical assistance and installation guidelines are available from Philippe Jans nv.

Cleanflon Sheet en 120820

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