



## universal microstructured filled PTFE Gasketing

**FAWNFLON** is the universal PTFE gasket for chemical and petrochemical industries.

Due to the silica reinforcement **FAWNFLON** has an excellent creep resistance and good relaxation factors, even at higher temperatures.

The very dense and uniform structure makes it the ideal gasket for high demands in emission control.

Even at low torque and applicable operating gasket stress, **FAWNFLON** offers reliable safety and lowest leakage rates.

## Typical Applications

### Components

Piping systems, apparatus flanges, temperature stressed components

### Flange Types

Steel flanges

### Media

Highly aggressive chemicals, all media in chemical and petrochemical applications

## Key Features

- 100 % virgin PTFE reinforced with inorganic filler
- good stability at thermal stress
- chemically inert (except for molten or dissolved alkali metals and elemental fluorine gas - please contact our technical service for questions)
- suitable for high temperatures applications up to +230 °C
- resistant to "cold flow"
- high recovery
- good electrical properties
- resistant to ageing

## Technical Data

### Material

100 % virgin PTFE, filled with inorganic silica

### Temperature Range of the material

-210°C to +260°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 55 bar, from ambient to +230°C (also in combination, up to 40 bar\*)

### Tests and Certificates

tested according to TA-Luft (VDI 2440) up to 250 °C and VDI 2290 @ 23 °C and 40 bar

\* depending on the individual assembly



# Sheet Gasketing

# Philippe Jans FAWNFLON

## Standard Sizes

Type	Size [mm]	Thickness [mm]
FAWNFLON 05	1500 x 1500	0,5 mm
FAWNFLON 10	1500 x 1500	1 mm
FAWNFLON 15	1500 x 1500	1,5 mm
FAWNFLON 20	1500 x 1500	2 mm
FAWNFLON 30	1500 x 1500	3 mm

## Properties

### EN 13555 (2 mm Thickness)

$Q_{min}$  (40 bar He; 0,01 mg/(s\*m)):

12 MPa

$Q_{Smin}$  ( $Q_A=40$  MPa; 40 bar He; L=0,01):

< 10 MPa

Leakage Rate ( $Q_A=40$  MPa; 40 bar He):

<  $10^{-6}$  mg/(s\*m)

PQR @ 160 °C:

0,46

### ASTM F36

Compressibility:

15 %

compressed Thickness:

1,68 mm

Recovery:

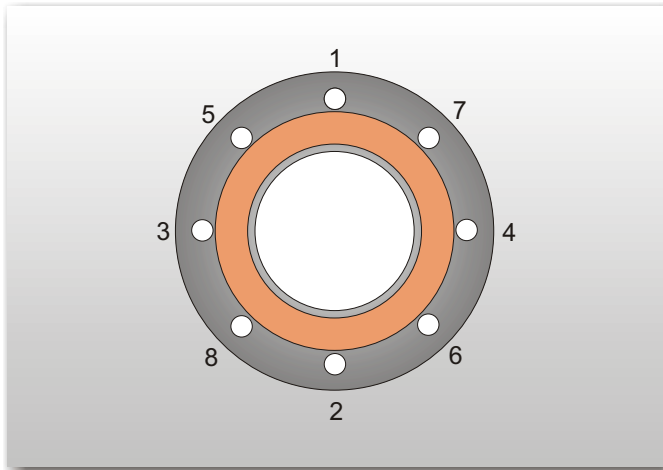
20 %

recovered Thickness:

1,75 mm

Density:

2,2 g/cm<sup>3</sup>

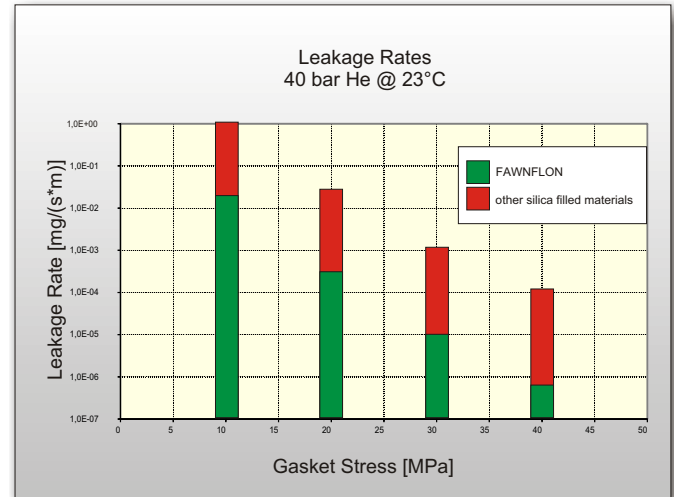


supplied by:



nv Philippe Jans sa  
 Ter Stratenweg 14  
 B-2520 Ranst-Oelegem  
[www.philippejans.be](http://www.philippejans.be)  
 Tel +32 (0)3 470.13.90  
 Fax +32 (0)3 470.13.97  
[info@philippejans.be](mailto:info@philippejans.be)

## Leakage Characteristics



At applicable gasket stress in DIN flanges, **FAWNFLON** gaskets offer 100 times lower leakage rates than comparable competitors materials ( $Q_{min}$  values according EN 13555).

## Assembly

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

Center gasket on the sealing surface and torque bolts hand-tight.

At least 4 progressive torque sequences with a torque wrench should follow, until you reach the recommended gasket stress.

Always torque crosswise as shown in the sketch (see left).

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 individual calculations for special equipment or non-standard gasket sizes contact our Technical Support.

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 your local distributor, or the application engineer at our Service.

FAWNFLON 180924en