

TEALON 1580

Rev.Nr.: 01/131004

Description:

TEALON TF 1580 is a structured PTFE - Gasket - Sheet manufactured by a unique process which provides a high level of fibrillation to overcome the creep relaxation and cold flow problems associated with normal (skived or moulded) PTFE sheets.

TEALON TF1580 is produced from virgin PTFE resin filled with Barium Sulfate.

Properties:

Colour: off-white (no dye)

Size: Sheets of 1500 mm x 1500 mm in 1.5 mm, 2.0 mm and 3.0 mm thickness

Temperature: -210°C to +260°C

Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive lyes and moderate acids. The only exception are molten alkali metals and elemental fluorine at high temperatures and pressures.

Operating Pressure: max. 83 bar

Ageing: TEALON TF 1580 is not subject to ageing or weathering. It can be stored indefinitely.

Safety: TEALON TF 1580 complies to FDA requirements for food, is physiologically harmless and is suitable for oxygen applications.

Approvals

FDA: conforms to the FDA's Perfluorocarbon regulation.

TA Luft: exceeding the requirements of Technical Instruction on Air Quality

BAM: approved for use with oxygen

DVGW: approved for gas and water

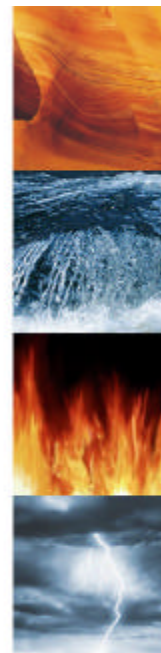
TEALON™ is a trademark of E.I. DuPont De Nemours and Company and is used under license by TEADIT



Advantages:

- Universal gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a broad temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- TEALON TF 1580 is suitable for service with a wide variety of aggressive fluids, including hydrocarbons, moderate acids and strong caustics, solvents, water, steam, hydrogen-peroxide, refrigerants, etc.
- The high purity of this gasket sheet makes it excellently suitable for the food and pharmaceutical industry
- TEALON TF 1580 is quick and simple to install. The used gasket can be removed easily and without residue.

The power of elements



TEADIT INTERNATIONAL PRODUKTIONS GMBH

Rosenheimer Str. 10 Tel.: +43 - 5372 - 64020 - 0
A-6330 Kulstein Fax: +43 - 5372 - 64020 - 20
email: mail@teaditeurope.com

TEADIT ITALIA S.p.A.

Via Vanzago 13 Tel.: +39 - 035 - 924911
I-25030 Paratico Fax: +39 - 035 - 913060
email: sales@teadit.it

Since all properties, specifications and application parameters shown throughout this product information are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT does not undertake liability of any kind whatsoever.

TEALON 1580

TEADIT TEALON TF 1580

| Property | Test Method | Nominal Value | Parameters |
|---|--------------------|---------------------|----------------------------------|
| Density [g/cm ³] | ASTM D 792 | 2.9 | |
| Compressibility [%] | ASTM F 36 A | 10 | $\sigma = 34 \text{ MPa}$ |
| Recovery [%] | ASTM F 36 A | 40 | $\sigma = 34 \text{ MPa}$ |
| Compressibility ϵ_{KSW} [%] | DIN 28090 - 2 | 9 | $\sigma = 20 \text{ MPa}$ |
| Recovery ϵ_{KRW} [%] | DIN 28090 - 2 | 1.9 | $\sigma = 20 \text{ MPa}$ |
| Tensile strength [MPa] | ASTM 152 | 14 | Room temperature |
| Creep deformation [%] | ASTM F38 | 11 | |
| Stress retention [MPa] | DIN 52913 | 11 | 30N/mm ² , 150°C, 16h |
| Sealability [ml/h] | ASTM F 37 A | 0.04 | 0.7 bar |
| $Q_{\min, 0.01}$ [MPa] | prEN 13555 | < 10 | He, 40 bar |
| $Q_{S\min, 0.01}$ [MPa] | prEN 13555 | < 10 | He, 40 bar |
| $Q_{\min, 0.001}$ [MPa] | prEN 13555 | 13 | He, 40 bar |
| $Q_{S\min, 0.001}$ [MPa] | prEN 13555 | < 10 | He, 40 bar |
| Q_{crit} [MPa] | prEN 13555 | > 240 | Room temperature |
| $Q_{S\text{MAX}}$ [MPa] | prEN 13555 | > 240 | Room temperature |
| E_0 [MPa] | prEN 13555 | 1104 | Room temperature |
| K_I [1] | prEN 13555 | 16 | Room temperature |
| Sealability [cm ³ /min] | DIN 3535 | < 0.015 | N ₂ , 40 bar, 32 MPa |
| Specific leakage rate L [mbar · l / (s · m)] | VDI 2440 / TA LUFT | $5.9 \cdot 10^{-7}$ | He, 1bar, 30 MPa |

TEADIT INTERNATIONAL PRODUKTIONS GMBH

Rosenheimer Str. 10 Tel.: +43 - 5372 - 64020 - 0
 A-6330 Kulstein Fax: +43 - 5372 - 64020 - 20
 email: mail@teaditeurope.com

TEADIT ITALIA S.p.A.

Via Vanzago 13 Tel.: +39 - 035 - 924911
 I-25030 Paratico Fax: +39 - 035 - 913060
 email: sales@teadit.it

Since all properties, specifications and application parameters shown throughout this product information are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT does not undertake liability of any kind whatsoever.