

TEALON 1570

Rev.Nr.: 01/131004

Description:

TEALON TF 1570 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 TF1570 is produced from virgin PTFE resin filled with hollow glass micro spheres.

Properties:

Colour: blue

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 acids and lyes. It is not recommended for strong caustic service above 80°C. It must not be used in contact with molten alkali metals and elemental fluorine at high temperatures and pressures.

Operating Pressure: 55 bar

Ageing: TEALON TF 1570 is not subject to ageing or weathering. It can be stored indefinitely.

Approvals:

TA Luft: exceeding requirements of Technical Instruction on Air Quality

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Advantages:

- TEALON TF 1570 is suitable for service with a wide variety of aggressive fluids, including hydrocarbons, acids and caustics, solvents, water, steam, hydrogen-peroxide, refrigerants, etc.
- The high compressibility of TEALON TF 1570 makes it particularly suitable for use with stress sensitive and/or fragile flanged joints, e.g. glass, ceramics, plastic, etc.
- The excellent malleability of TEADIT TF 1570 makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- TEADIT TF 1570 is quick and simple to install. The used gasket can be removed easily and without residue.

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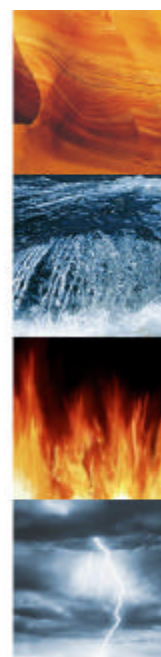
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Since all properties, specifications and application parameters shown throughout this product information are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for 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.

The power of elements



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Property	Test Method	Nominal Value	Parameters
Density [g/cm ³]	ASTM D 792	1.7	
Compressibility [%]	ASTM F 36 A	35	$\sigma = 34 \text{ MPa}$
Recovery [%]	ASTM F 36 A	30	$\sigma = 34 \text{ MPa}$
Compressibility ϵ_{KSW} [%]	DIN 28090 - 2	29	$\sigma = 20 \text{ MPa}$
Recovery ϵ_{KRW} [%]	DIN 28090 - 2	7.4	$\sigma = 20 \text{ MPa}$
Tensile strength [MPa]	ASTM 152	14	Room temperature
Creep defromation [%]	ASTM F38	40	
Stress retention [MPa]	DIN 52913	12	30N/mm ² , 150°C, 16h
Sealability [ml/h]	ASTM F 37 A	0.12	0.7 bar
$Q_{\text{min}, 0.01}$ [MPa]	prEN 13555	< 10	He, 40 bar
$Q_{\text{Smin}, 0.01}$ [MPa]	prEN 13555	< 10	He, 40 bar
$Q_{\text{min}, 0.001}$ [MPa]	prEN 13555	16	He, 40 bar
$Q_{\text{Smin}, 0.001}$ [MPa]	prEN 13555	< 10	He, 40 bar
Q_{crit} [MPa]	prEN 13555	> 240	Room temperature
Q_{SMAX} [MPa]	prEN 13555	> 240	Room temperature
E_0 [MPa]	prEN 13555	491	Room temperature
K_I [1]	prEN 13555	11	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	$3.7 \cdot 10^{-6}$	He, 1bar, 30 MPa

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