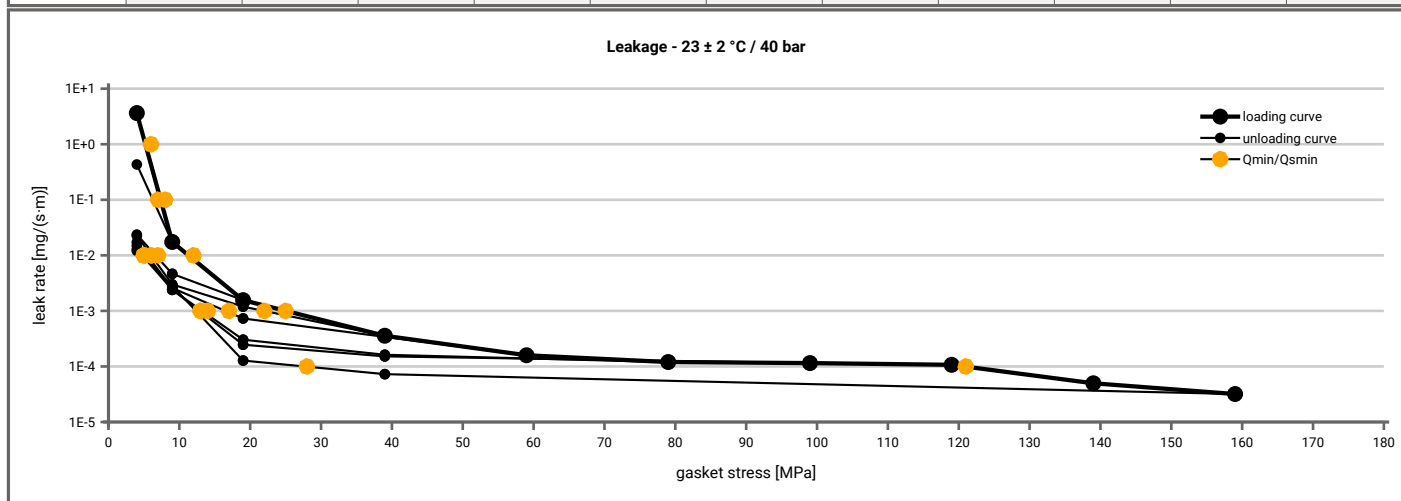


Manufacturer address	TEADIT International Produktions GmbH, Schanzenstr. 35, 51063 Köln, DE	According to DIN EN 13555 2005-2
Product name	TF 1570	
Product dimensions	92 x 49 x 3 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	5		5	5	5	5	5	5			5
1E-0	6		5	5	5	5	5	5			5
1E-1	8		7	5	5	5	5	5			5
1E-2	12			7	7	6	6	6			5
1E-3	26				23	17	14	14			13
1E-4	122										28
1E-5											
1E-6											
1E-7											
1E-8											



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2011-10-05
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Product name	TF 1570	
Product dimensions	92 x 49 x 3 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [250 °C]					
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [30 MPa]	0.77	58	0.48	132	0.25	189				
Stress level 2 [60 MPa]	0.80	103	0.50	254	0.31	350				
Stress level 3 [80 MPa]			0.57	292						
Stress level 4 [140 MPa]	0.91	112								
Stress level 5 [160 MPa]	0.92	114								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.92	121	0.72	287	0.31	350				
Q_{smax}	180 MPa		120 MPa		60 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [250 °C]					
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0	0	3.200	0	3.100	0	3.240				
1	0	3.160	0	3.070	0	3.210				
20	727	2.320	618	1.620	419	1.060				
30	893	1.900	919	1.290	581	0.880				
40	1625	1.690	1276	1.090	543	0.770				
50	2430	1.520	1693	0.960	1038	0.700				
60	2787	1.380	1988	0.880	1256	0.620				
80	3135	1.200	2190	0.760						
100	3168	1.080	2395	0.700						
120	3265	0.990	1689	0.640						
140	3418	0.920								
160	2606	0.870								
180	2833	0.820								

