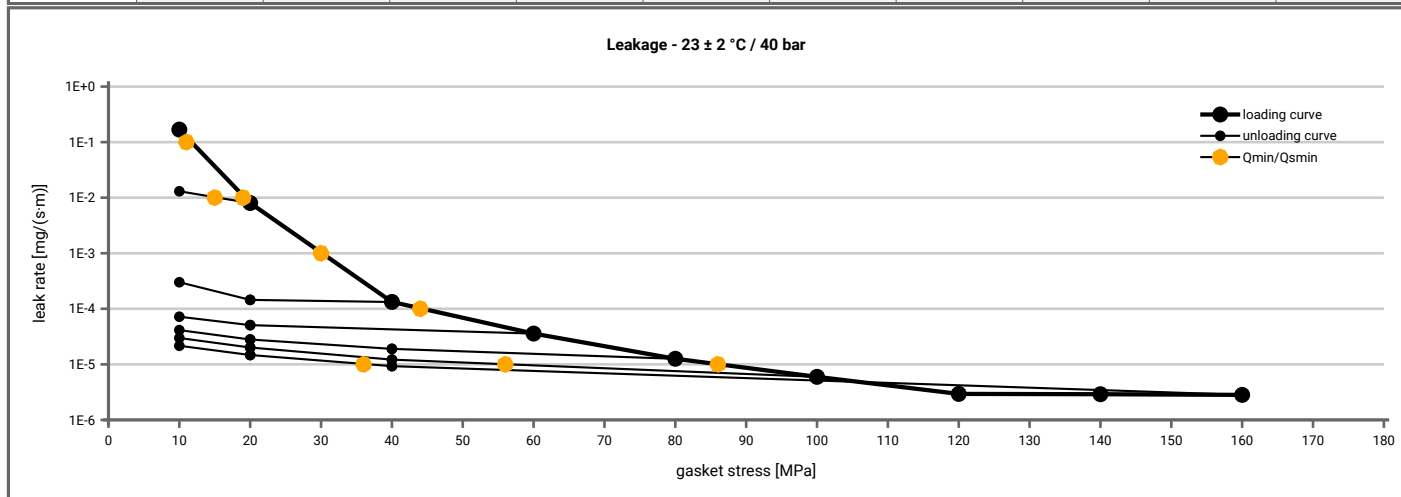


Manufacturer address	TEADIT International Produktions GmbH, Schanzenstr. 35, 51063 Köln, DE	According to DIN EN 13555 2005-2
Product name	TF 1590	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

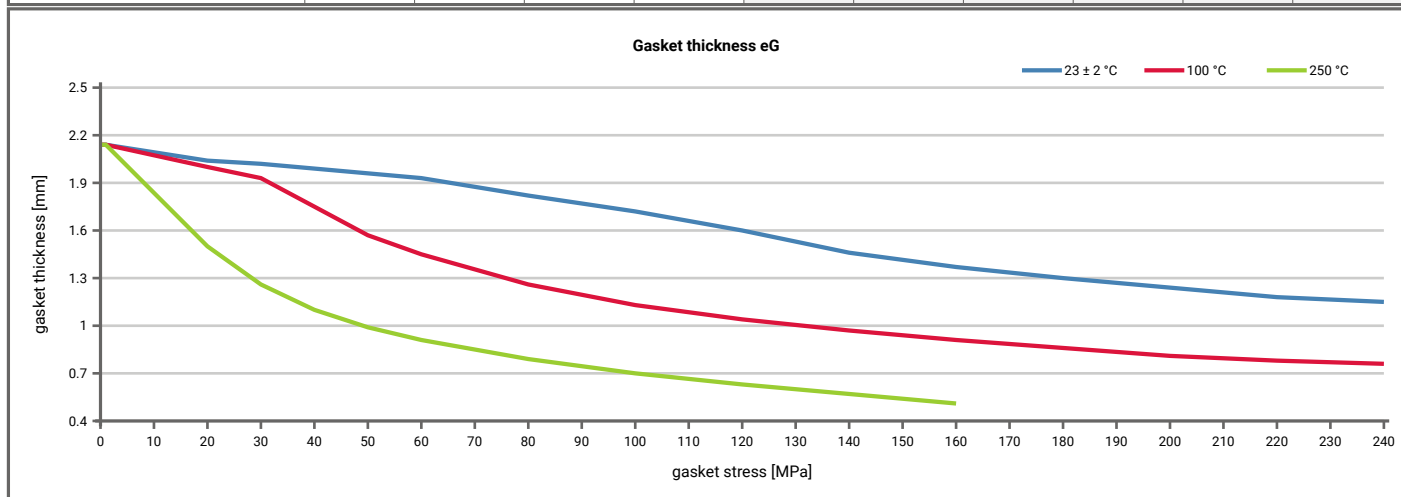
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40 \text{ bar}$ ($T = 23 \pm 2 \text{ °C}$)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10 \text{ [MPa]}$	$Q_A = 20 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 120 \text{ [MPa]}$	$Q_A = 140 \text{ [MPa]}$	$Q_A = 160 \text{ [MPa]}$
1E-0	10		10	10	10	10	10			10
1E-1	12		10	10	10	10	10			10
1E-2	19		16	10	10	10	10			10
1E-3	30			10	10	10	10			10
1E-4	44				10	10	10			10
1E-5	86						57			37
1E-6										
1E-7										
1E-8										



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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]	0.95	13	0.75	63	0.38	156				
Stress level 2 [100 MPa]					0.41	495				
Stress level 3 [140 MPa]	0.88	141	0.69	364						
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.95	97	0.77	444	0.61	524				
Q_{smax}	230 MPa		230 MPa		160 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	2.140	0	2.140	0	2.140				
1	0	2.140	0	2.140	0	2.140				
20	1754	2.040	1476	2.000	1004	1.500				
30	2245	2.020	2027	1.930	1417	1.260				
40	2957	1.990	2287	1.750	1476	1.100				
50	2565	1.960	2637	1.570	1648	0.990				
60	3103	1.930	3015	1.450	2025	0.910				
80	4538	1.820	2796	1.260	3251	0.790				
100	5921	1.720	3553	1.130	4529	0.700				
120	15507	1.600	4272	1.040	2163	0.630				
140	10339	1.460	3400	0.970	2316	0.570				
160	6373	1.370	3013	0.910	3904	0.510				
180	7513	1.300	3269	0.860						
200	6001	1.240	3243	0.810						
220	5364	1.180	3191	0.780						
240	5057	1.150	3509	0.760						



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2011-10-19
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