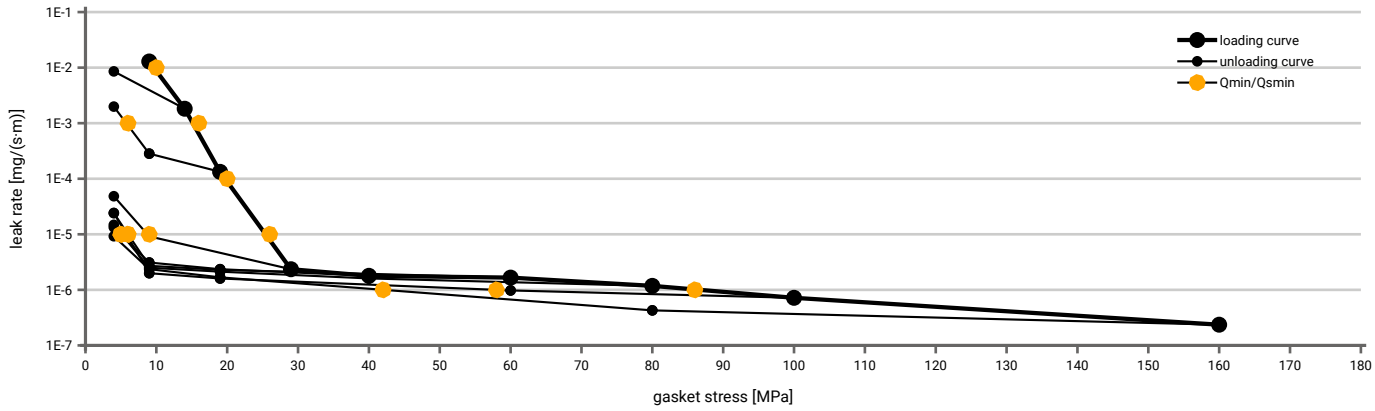
Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to
Product name	TF 1580	**EN 13555**
Product dimensions	92 x 49 x 2 mm	**2021-4**

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		Q_A = 10 [MPa]	Q_A = 15 [MPa]	Q_A = 20 [MPa]	Q_A = 30 [MPa]	Q_A = 40 [MPa]	Q_A = 60 [MPa]	Q_A = 80 [MPa]	Q_A = 100 [MPa]	Q_A = 161 [MPa]
1E-0	10		5	5	5	5	5	5	5	5
1E-1	10		5	5	5	5	5	5	5	5
1E-2	10		5	5	5	5	5	5	5	5
1E-3	16			7	5	5	5	5	5	5
1E-4	21				5	5	5	5	5	5
1E-5	26				10	6	7	6	7	5
1E-6	87								58	43
1E-7										

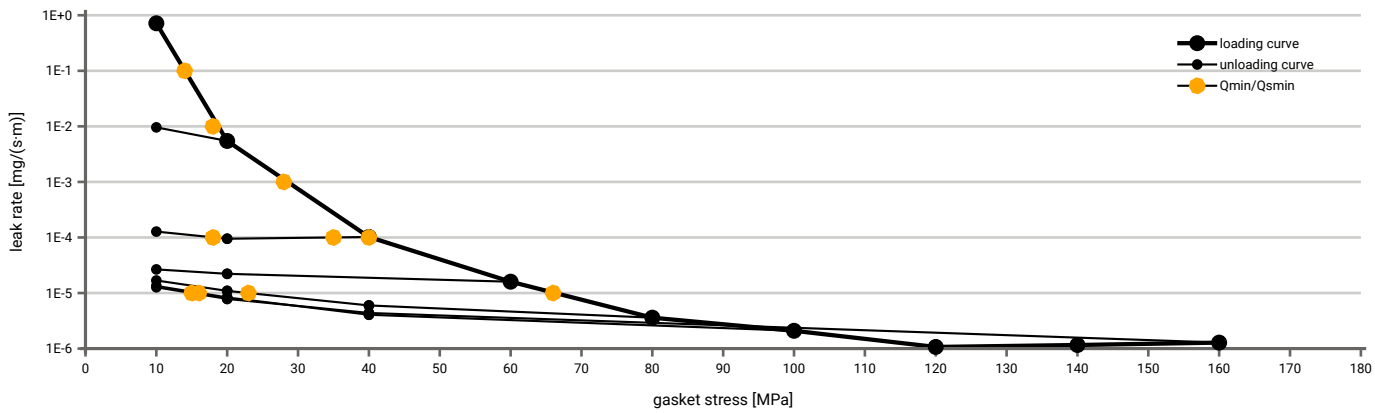
Leakage - 23 ± 2 °C / 10 bar



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [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-0	10		10	10	10	10	10			10
1E-1	14		10	10	10	10	10			10
1E-2	19		10	10	10	10	10			10
1E-3	29			10	10	10	10			10
1E-4	40			35	10	10	10			10
1E-5	67					23	16			15
1E-6										
1E-7										

Leakage - 23 ± 2 °C / 40 bar



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-09-04**

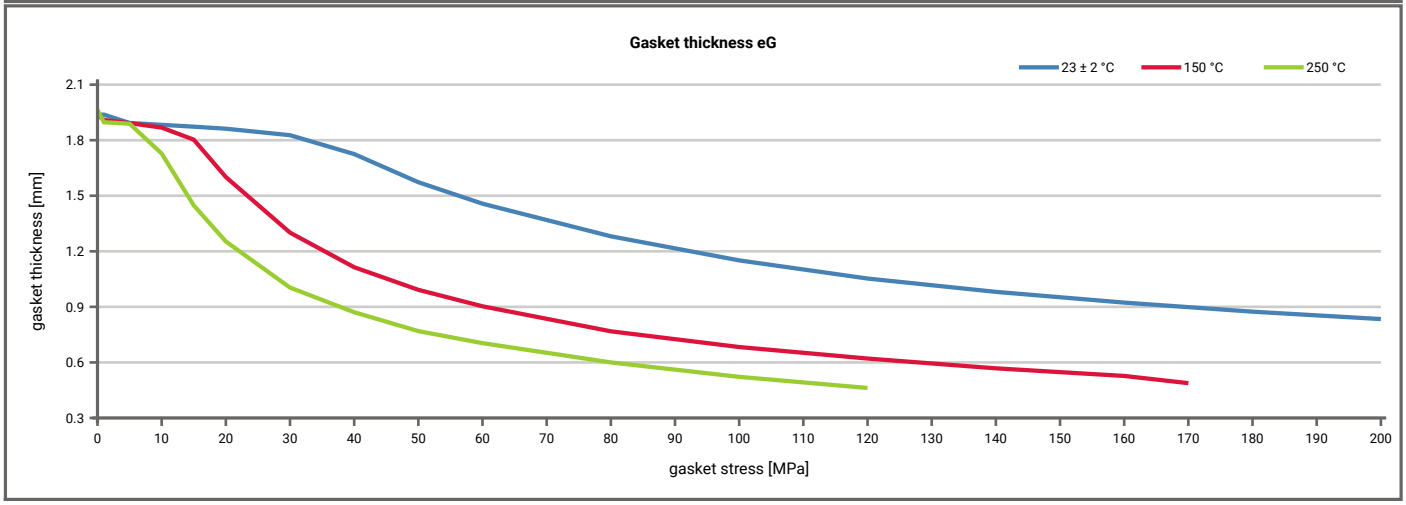
Manufacturer address	TEADIT International Produktions GmbH, Europastraße 12, 6322 Kirchbichl, AT	According to **EN 13555 2021-4**
Product name	TF 1580	
Product dimensions	92 x 49 x 2 mm	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]

Gasket stress	23 ± 2 °C		Temperature 1 [150 °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 [10 MPa]	0.97	3	0.93	6	0.66	29				
Stress level 2 [30 MPa]	0.91	23	0.52	121	0.36	162				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.93	117	0.73	385	0.56	443				
Q_{smax}	200 MPa		170 MPa		120 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]

Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °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	1.937	0	1.938	0	1.963				
1	0	1.938	0	1.909	0	1.897				
5	737	1.893	671	1.892	354	1.889				
10	2010	1.883	1004	1.868	425	1.728				
15	2687	1.873	1118	1.803	680	1.448				
20	2667	1.862	1217	1.601	792	1.253				
30	2809	1.827	1297	1.301	855	1.004				
40	3351	1.725	1611	1.114	1228	0.871				
50	3838	1.573	1794	0.992	1279	0.769				
60	4207	1.457	1956	0.903	1575	0.704				
80	5977	1.281	2068	0.768	1523	0.600				
100	5562	1.151	2258	0.683	1583	0.522				
120	4945	1.053	2252	0.621	1771	0.462				
140	4356	0.981	2097	0.568						
160	4017	0.923	2277	0.527						
180 / 170	3784	0.874	2115	0.488						
200	3573	0.834								



Fields marked: Intrusion into bore was detected. Determined after the corresponding P_{QR}-Test.

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-09-04**