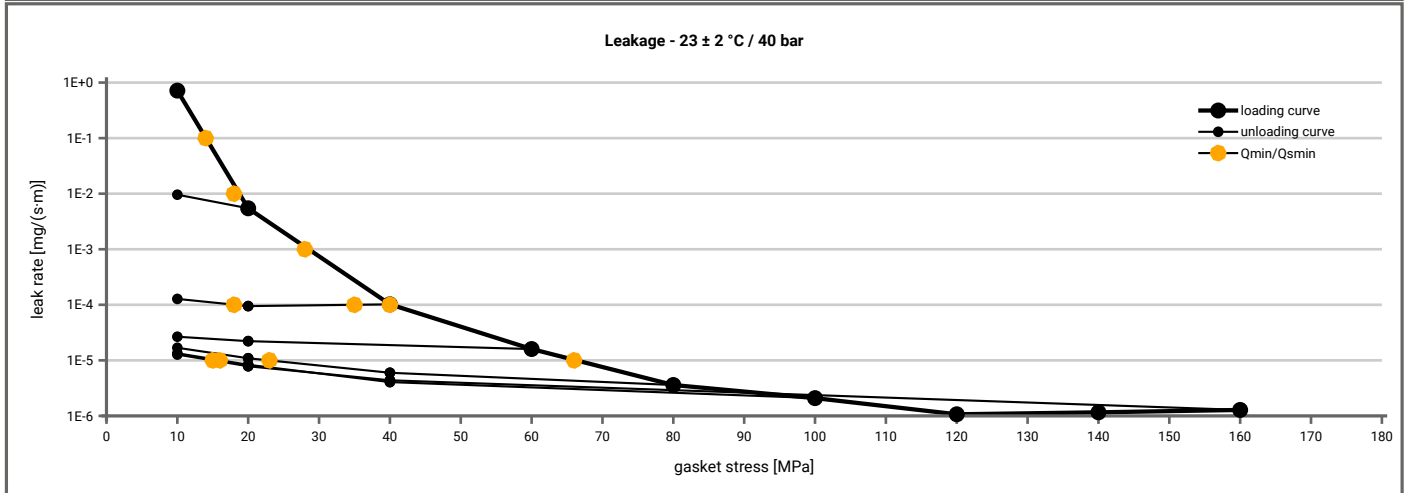


Manufacturer address	TEADIT International Produktions GmbH, Schanzenstr. 35, 51063 Köln, DE	According to <b>DIN EN 13555</b> 2005-2
Product name	TF 1580	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °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										
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]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [30 MPa]	0.92	21	0.68	81	0.36	162				
Stress level 2 [80 MPa]			0.58	285	0.43	383				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	0.92	154	0.67	388	0.58	493				
$Q_{smax}$	230 MPa		140 MPa		140 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	2.030	0	2.044	0	2.088				
1	0	2.047	0	2.044	0	2.088				
20	4282	1.988	1789	1.819	1842	1.361				
30	3871	1.935	2706	1.517	1582	1.109				
40	6089	1.881	2963	1.273	2468	0.958				
50	6743	1.786	2873	1.115	2839	0.850				
60	10982	1.683	3993	0.998	2459	0.769				
80	12998	1.527	3320	0.831	2792	0.645				
100	14849	1.405	3249	0.730	3983	0.561				
120	10797	1.301	4698	0.659	2561	0.462				
140	8449	1.216	3155	0.607	3578	0.396				
160	7998	1.142								
180	6399	1.082								
200	7596	1.031								
220	7344	0.988								

