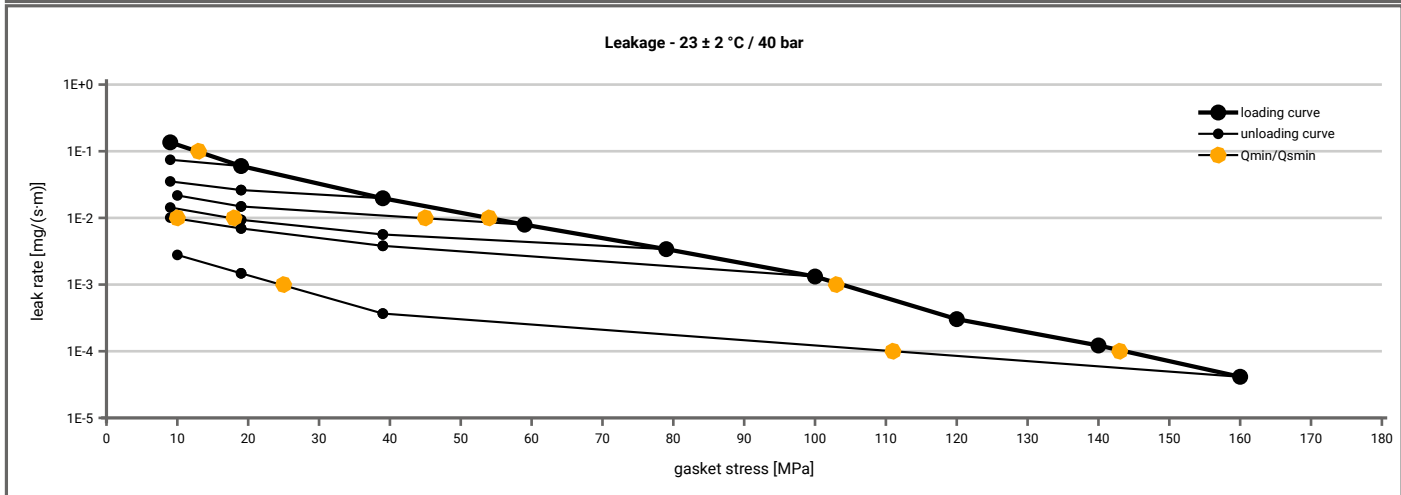
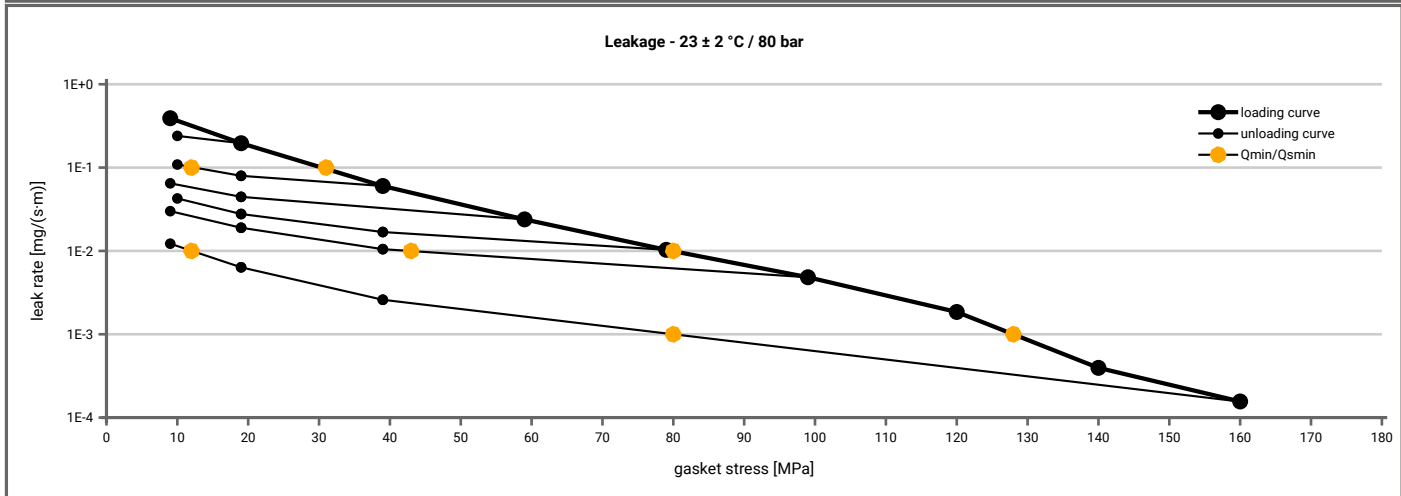


Manufacturer address	DONIT TESNIT d.o.o., Cesta komandanta Staneta 38, SI-1215 Medvode, SI	According to DIN EN 13555 2005-2
Product name	Grafilit SP	
Product dimensions	92 x 49 x 1.5 mm (DIN EN 1514-1 1997-8)	

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		10
1E-1	14		10	10	10	10	10	10		10
1E-2	55				45	18	10			10
1E-3	104									25
1E-4	144									111
1E-5										
1E-6										
1E-7										
1E-8										



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 80$ 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		10
1E-1	31			13	10	10	10	10		10
1E-2	81						44			13
1E-3	128									81
1E-4										
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: 2011-09-27

Manufacturer address	DONIT TESNIT d.o.o., Cesta komandanta Staneta 38, SI-1215 Medvode, SI	According to DIN EN 13555 2005-2
Product name	Graflit SP	
Product dimensions	92 x 49 x 1.5 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [300 °C]		Temperature 2 [400 °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]	0.98	6	0.94	16	0.91	23				
Stress level 2 [50 MPa]	1.00	2	0.96	17	0.95	23				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.99	18	0.99	18				
Q_{smax}	220 MPa		220 MPa		220 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [300 °C]		Temperature 2 [400 °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	1.544	0	1.537	0	1.543				
1	0	1.544	0	1.537	0	1.543				
20	242	1.193	226	1.228	250	1.248				
30	453	1.075	506	1.099	482	1.121				
40	691	1.013	605	1.023	780	1.052				
50	924	0.976	1094	0.984	941	1.007				
60	1195	0.949	1414	0.954	1300	0.973				
80	1322	0.914	1871	0.933	1778	0.952				
100	1879	0.884	1872	0.896	2583	0.922				
120	1905	0.859	2020	0.867	2439	0.895				
140	2514	0.843	2675	0.849	2428	0.873				
160	3265	0.830	2730	0.831	2874	0.858				
180	3171	0.815	2777	0.818	2642	0.839				
200	3124	0.803	3060	0.804	2678	0.825				
220	3190	0.793	2799	0.790	2842	0.810				

