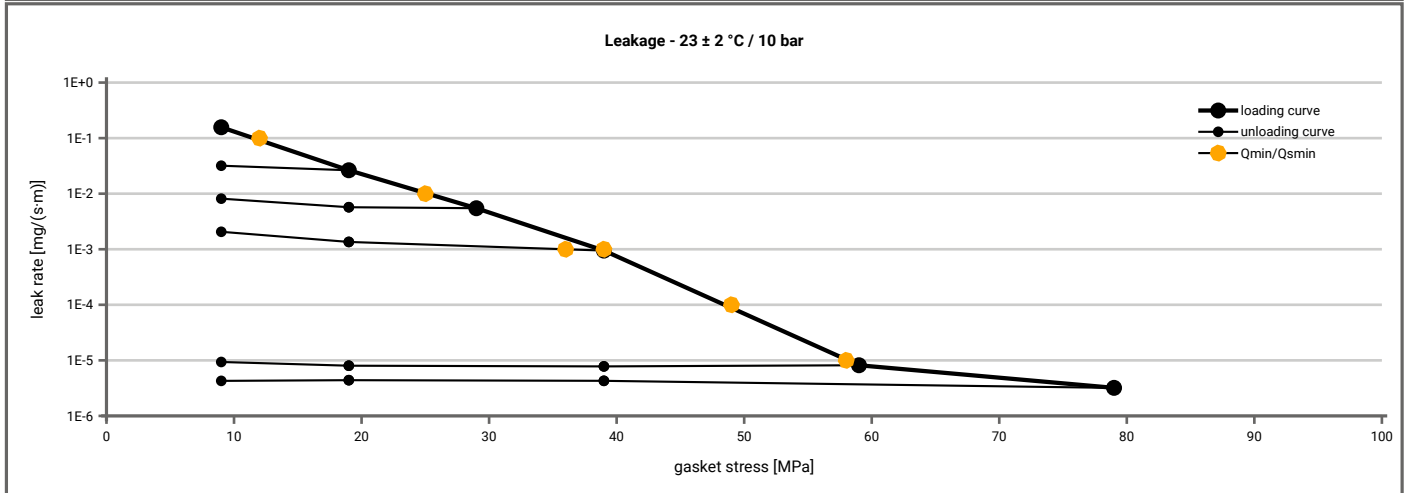
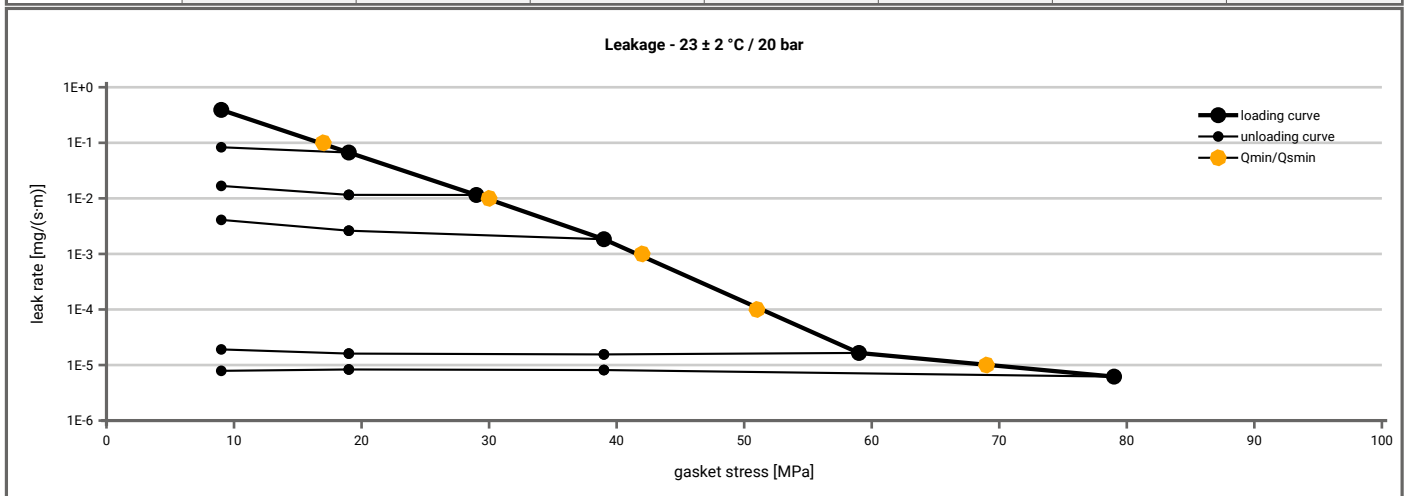


Manufacturer address	W. L. Gore & Associates GmbH, Hermann-Oberth-Strasse 26, 85640 Putzbrunn, DE	According to DIN EN 13555 2014-7
Product name	GORE® GR Sheet Gasketing	
Product dimensions	92 x 49 x 3 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.7$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	12		10	10	10	10	10
1E-2	26			10	10	10	10
1E-3	39				37	10	10
1E-4	49					10	10
1E-5	59					10	10
1E-6							
1E-7							
1E-8							



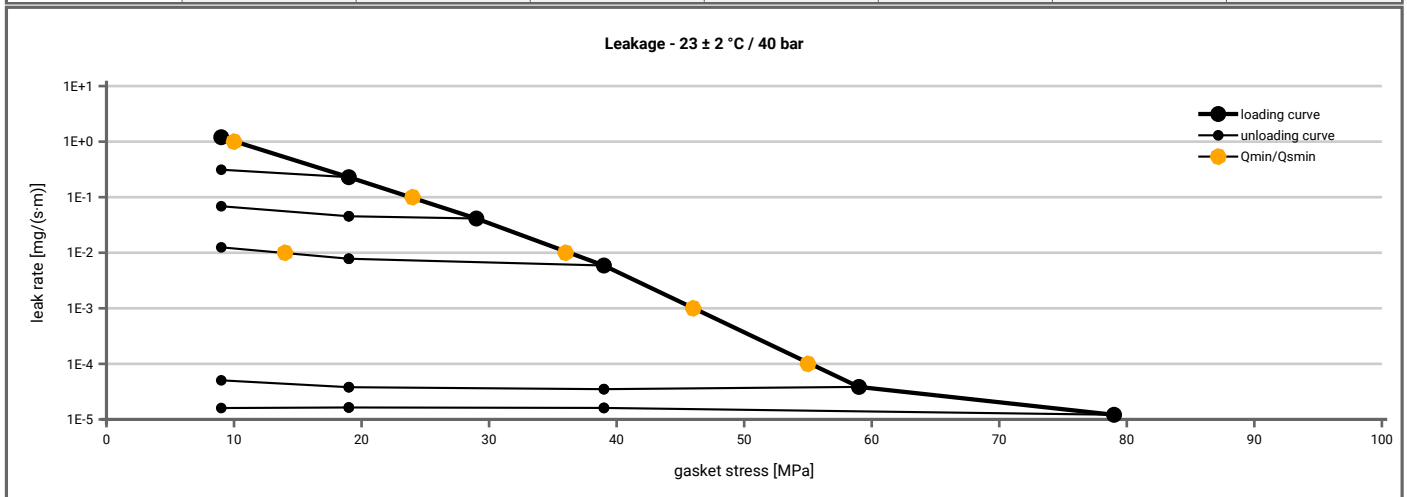
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.6$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	17		10	10	10	10	10
1E-2	30				10	10	10
1E-3	42					10	10
1E-4	52					10	10
1E-5	70					10	10
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: 2016-01-25

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Product name	GORE® GR Sheet Gasketing	
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]					
		$Q_A = 9.6$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	10		10	10	10	10	10
1E-0	11		10	10	10	10	10
1E-1	24			10	10	10	10
1E-2	37				14	10	10
1E-3	47					10	10
1E-4	56					10	10
1E-5							
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 [150 °C]		Temperature 2 [230 °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]	0.90	25	0.73	68	0.75	64				
Stress level 2 [50 MPa]	0.95	21	0.78	92	0.65	147				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{Smax}										
P_{QR} at Q_{Smax}	0.99	19	0.74	218	0.66	228				
Q_{Smax}	230 MPa		100 MPa		80 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 [230 °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	2.853	0	2.877	0	2.872				
1	0	2.412	0	2.219	0	2.212				
5	59	1.619	63	1.287	66	1.222				
10	146	1.373	144	1.158	156	1.108				
15	232	1.261	261	1.089	296	1.053				
20	390	1.195	418	1.047	498	1.030				
25	472	1.148	619	1.018	683	1.015				
30	577	1.112	892	0.999	751	0.964				
40	899	1.066	1315	0.943	998	0.867				
50	1274	1.039	1690	0.889	1303	0.803				
60	1848	1.023	2045	0.844	1647	0.752				
80	2171	0.999	3110	0.776	2604	0.675				
100	2456	0.984	4487	0.727						
120	3299	0.975								
140	4392	0.971								
160	4116	0.962								
180	4755	0.956								
200	4493	0.946								
220	4683	0.937								
230	5074	0.929								

