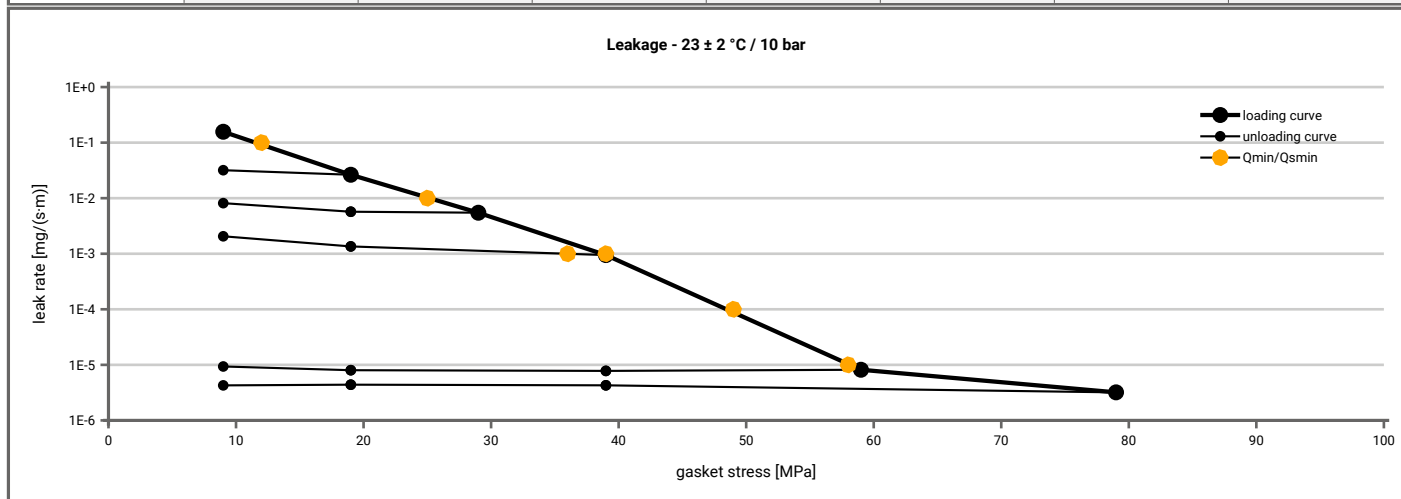
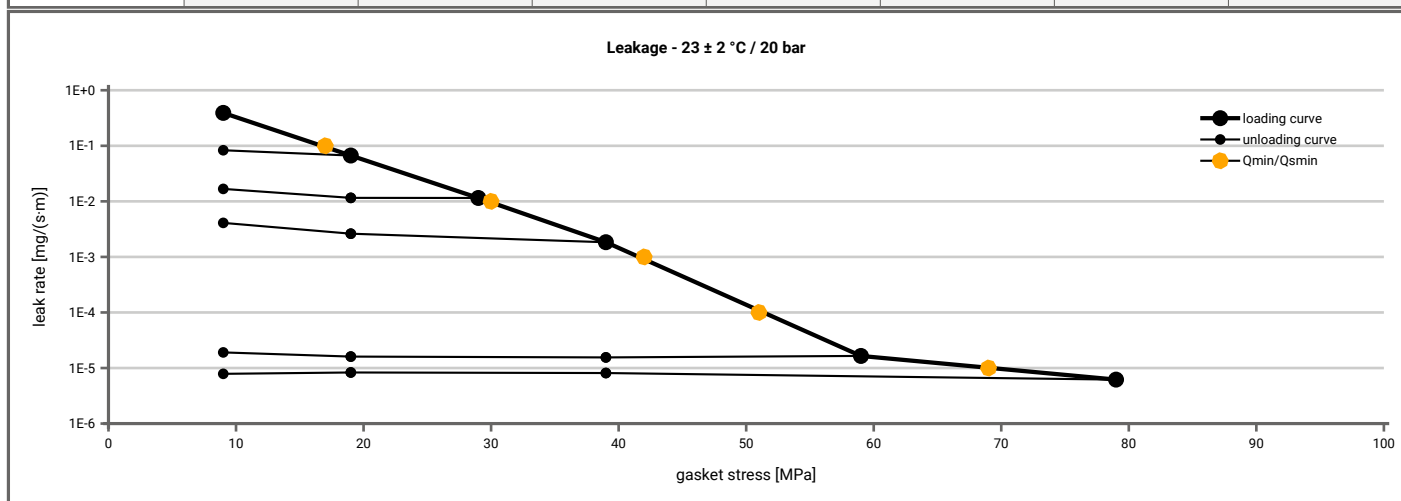


Manufacturer address	W. L. Gore & Associates GmbH, Hermann-Oberth-Straße 26, 85640 Putzbrunn, DE	According to EN 13555 2021-4
Product name	GORE® GR Sheet Gasketing	
Product dimensions	92 x 49 x 3 mm	

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							



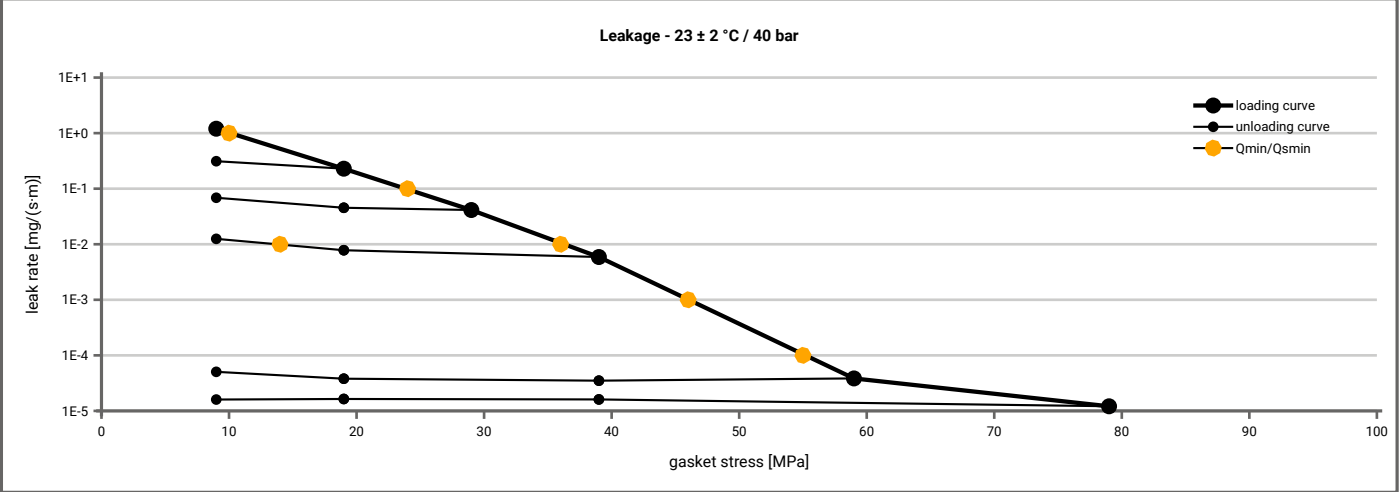
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.6$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	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
1E-6							
1E-7							



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 4	Creation date of this sheet: 2022-09-12
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Product name	GORE® GR Sheet Gasketing	
Product dimensions	92 x 49 x 3 mm	

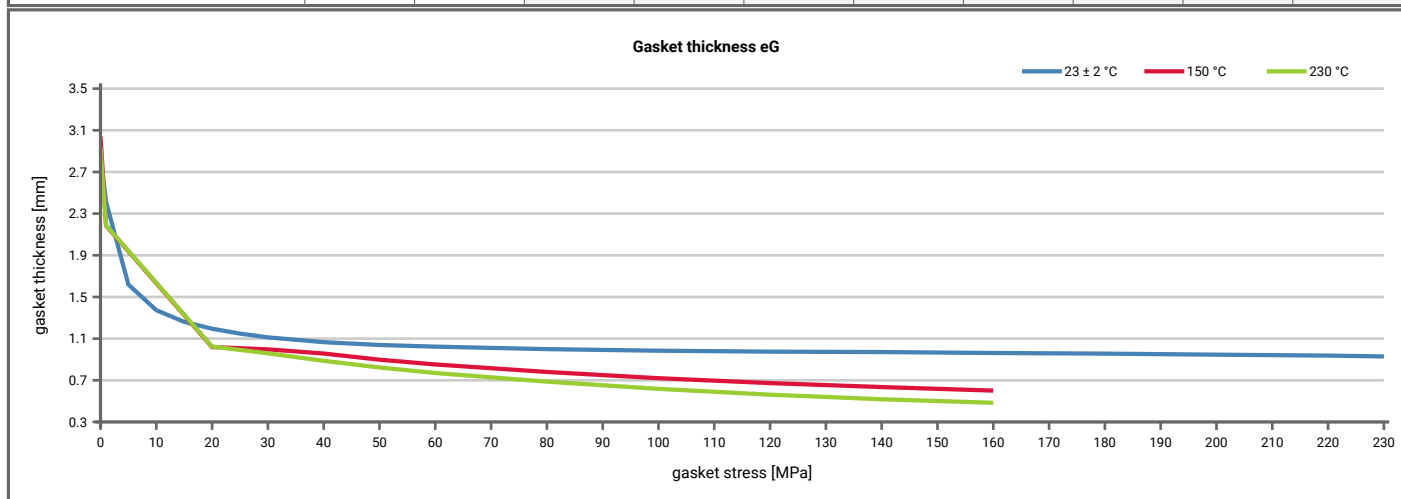
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.6$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	10		10	10	10	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							



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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 [20 MPa]	0.85	25	0.47	89	0.37	106				
Stress level 2 [30 MPa]	0.90	25	0.73	68	0.75	64				
Stress level 3 [50 MPa]	0.95	21	0.78	92	0.65	147				
Stress level 4 [80 MPa]					0.66	228				
Stress level 5 [100 MPa]			0.74	218						
P_{QR} and Δe_{GC} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	19	0.68	436	0.52	645				
Q_{smax}	230 MPa		160 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 [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	3.040	0	2.935				
1	0	2.412	0	2.184	0	2.188				
5 / 20 / 20	59	1.619	523	1.019	574	1.024				
10 / 30 / 30	146	1.373	1078	0.997	764	0.959				
15 / 40 / 40	232	1.261	1395	0.957	921	0.887				
20 / 50 / 50	390	1.195	1610	0.898	1070	0.823				
25 / 60 / 60	472	1.148	1897	0.852	1253	0.770				
30 / 80 / 80	577	1.112	2326	0.780	1624	0.687				
40 / 100 / 100	899	1.066	2529	0.720	1888	0.618				
50 / 120 / 120	1274	1.039	2677	0.673	1814	0.562				
60 / 140 / 140	1848	1.023	2573	0.635	1991	0.518				
80 / 160 / 160	2171	0.999	2596	0.601	1959	0.484				
100	2456	0.984								
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								



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