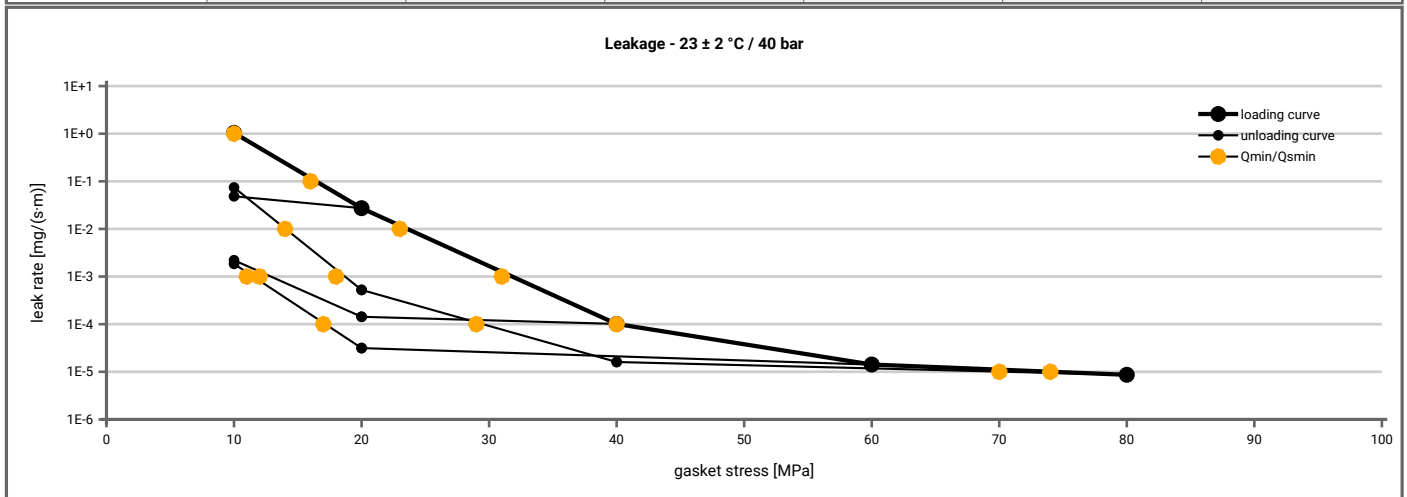


Manufacturer address	W. L. Gore & Associates GmbH, Hermann-Oberth-Straße 26, 85640 Putzbrunn, DE	According to DIN EN 13555 2014-7
Product name	GORE® Gasket Tape Series 500	
Product dimensions	151 x 111 x 6 mm (DIN EN 1514-1 1997-8)	

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]
1E+1	10		10	10	10	10
1E-0	10		10	10	10	10
1E-1	16		10	10	10	10
1E-2	24			10	10	14
1E-3	32			13	11	19
1E-4	40				17	30
1E-5	74					71
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]	0.86	72	0.50	249	0.33	331				
Stress level 2 [50 MPa]	0.91	78	0.48	432	0.38	514				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.96	89	0.58	840	0.44	930				
Q_{smax}	120 MPa		120 MPa		100 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	6.000	0	6.000	0	6.000				
1	0	5.231	0	5.301	0	5.256				
20	724	3.176	644	2.716	440	2.314				
30	1258	3.022	1052	2.529	710	2.112				
40	1612	2.928	1356	2.369	905	1.950				
50	1804	2.862	1526	2.211	1065	1.825				
60	1952	2.810	1743	2.088	1214	1.729				
80	2210	2.735	2198	1.906	1541	1.586				
100	2495	2.671	2639	1.780	1884	1.476				
120	2870	2.617	3319	1.690						

