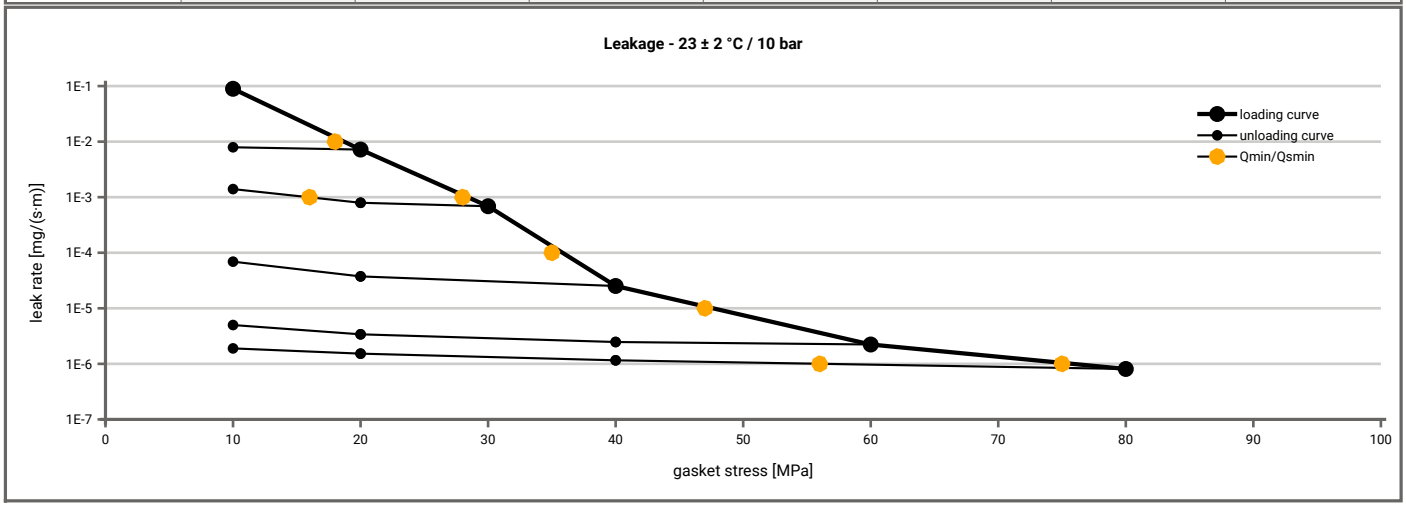
Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to
Product name	MultiTex® Sheet & Ring 2.0	EN 13555
Product dimensions	92 x 49 x 1.5 mm	2021-4

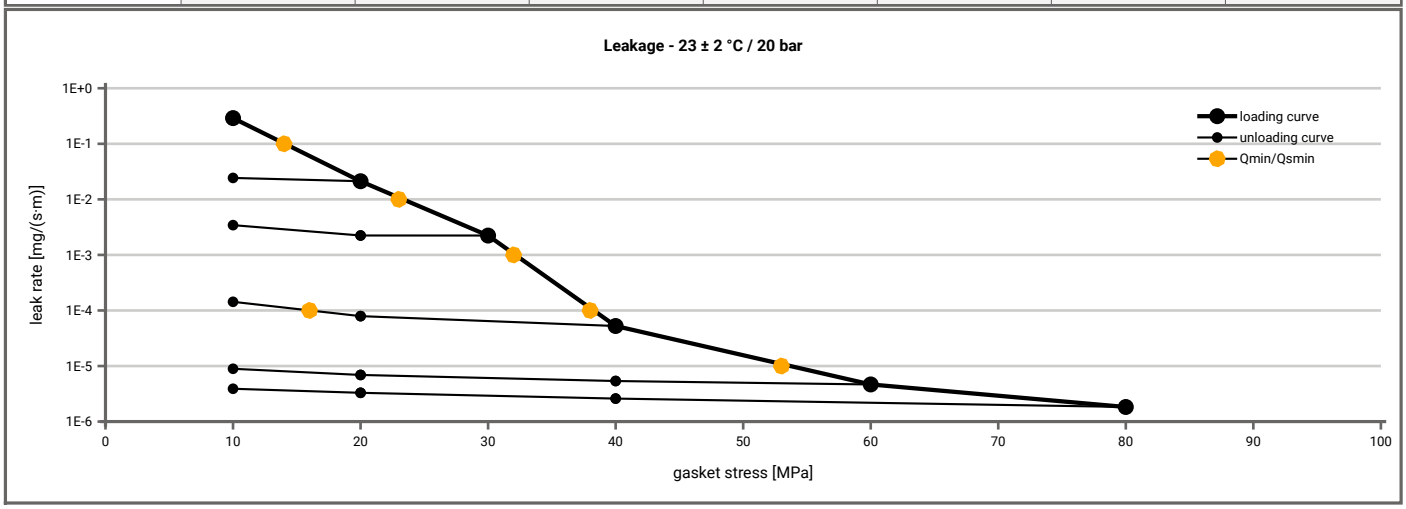
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		Q_A = 10 [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	10		10	10	10	10	10
1E-2	19		10	10	10	10	10
1E-3	28			16	10	10	10
1E-4	36				10	10	10
1E-5	48					10	10
1E-6	76						56
1E-7							



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 20 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		Q_A = 10 [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	14		10	10	10	10	10
1E-2	23			10	10	10	10
1E-3	32				10	10	10
1E-4	38				16	10	10
1E-5	54					10	10
1E-6							
1E-7							

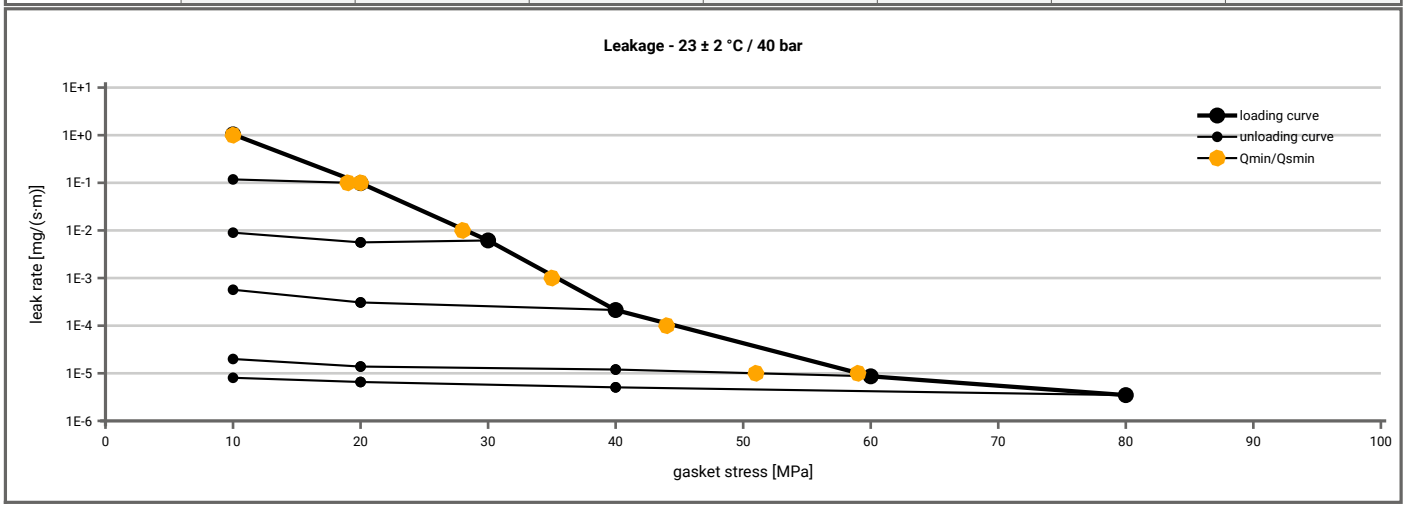


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2023-03-19**

Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to **EN 13555 2021-4**
Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 1.5 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 = 10 [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	10		10	10	10	10	10
1E-1	20		19	10	10	10	10
1E-2	29			10	10	10	10
1E-3	36				10	10	10
1E-4	45					10	10
1E-5	59					51	10
1E-6							
1E-7							



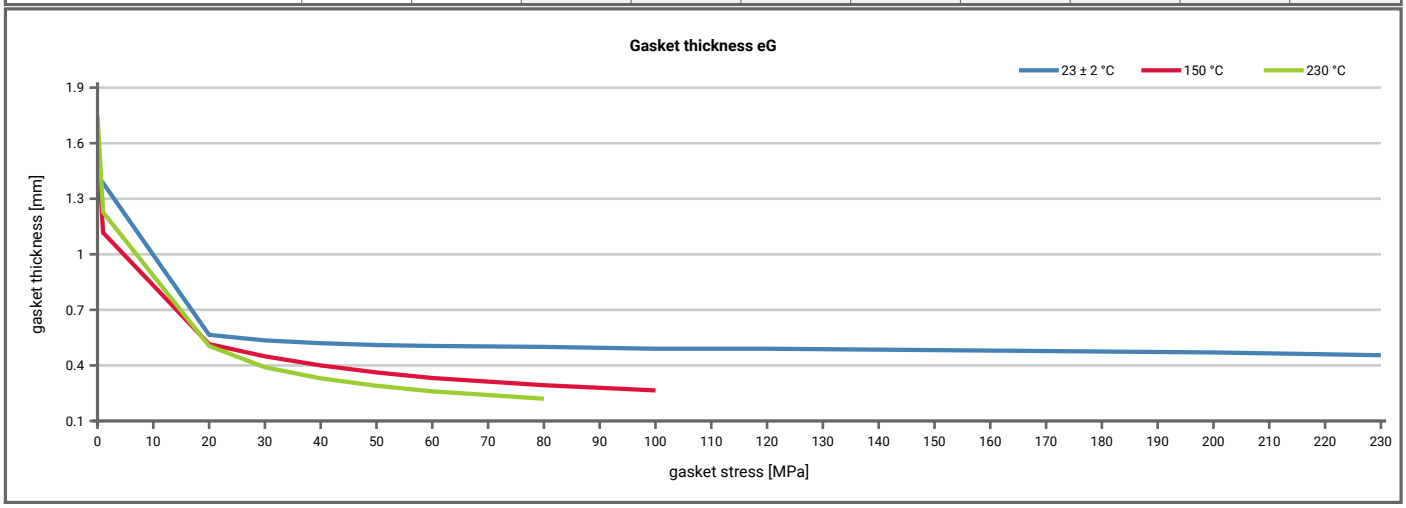
Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to **EN 13555 2021-4**
Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 1.5 mm	

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]	0.91	15	0.76	40	0.82	31				
Stress level 2 [30 MPa]	0.94	15	0.74	67	0.59	103				
Stress level 3 [50 MPa]	0.98	8	0.71	124	0.59	172				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	29	0.73	254	0.64	245				
Q_{smax}	230 MPa		110 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	1.421	0	1.630	0	1.750				
1	0	1.385	0	1.117	0	1.227				
20	536	0.565	1487	0.515	996	0.505				
30	957	0.535	1740	0.449	950	0.390				
40	1450	0.520	1923	0.400	1068	0.330				
50	1896	0.510	1927	0.362	1134	0.290				
60	2371	0.505	1982	0.332	1110	0.260				
80	3104	0.500	2067	0.293	1181	0.220				
100	3647	0.490	2000	0.265						
120	3987	0.490								
140	4019	0.485								
160	4046	0.480								
180	4024	0.475								
200	3993	0.470								
220	3892	0.460								
230	3719	0.455								



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

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2023-03-19**