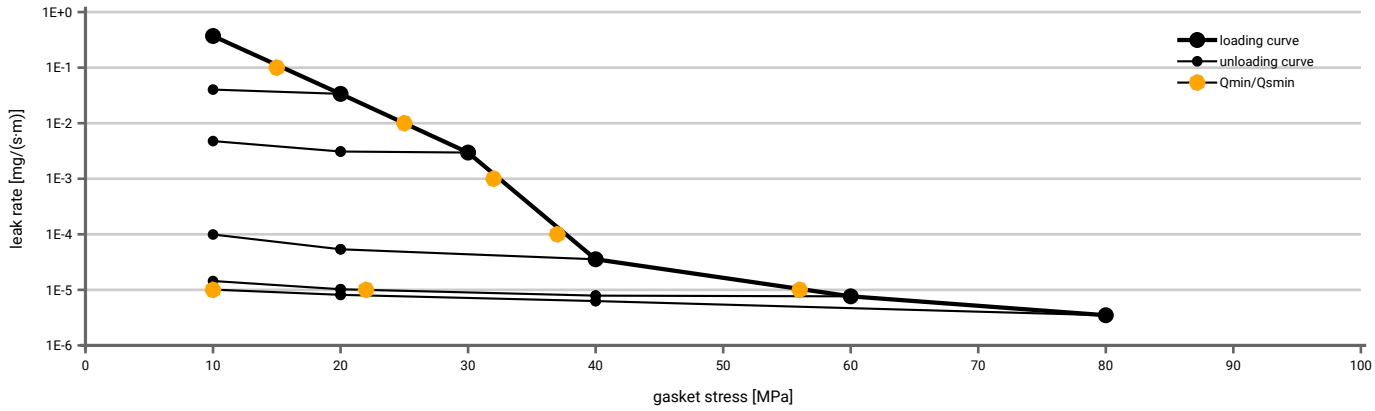
Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to
Product name	MultiTex Sheet & Ring 2.0	EN 13555
Product dimensions	92 x 49 x 6 mm	2021-4

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	16		10	10	10	10	10
1E-2	25			10	10	10	10
1E-3	33				10	10	10
1E-4	38				10	10	10
1E-5	57					22	11
1E-6							
1E-7							

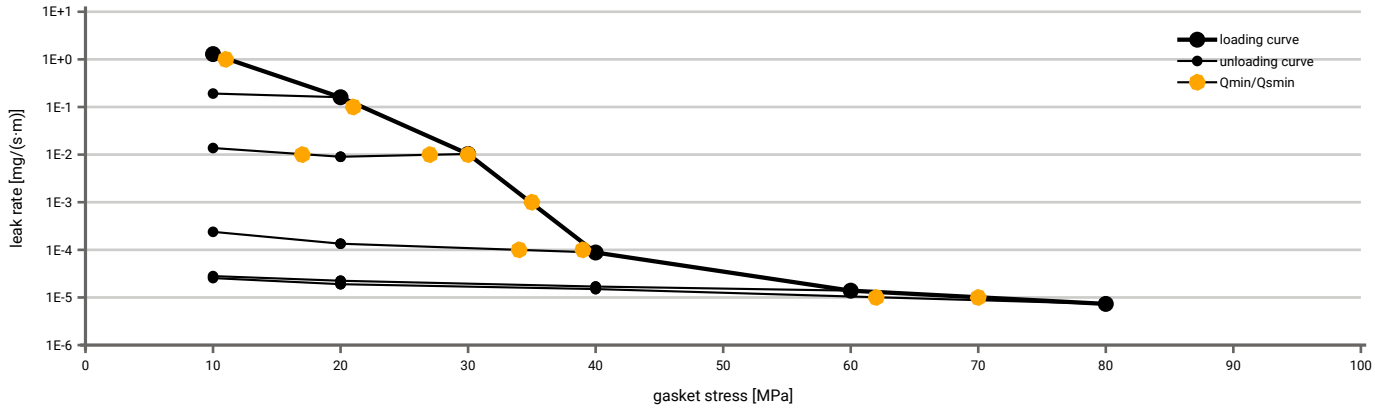
Leakage - 23 ± 2 °C / 10 bar



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+1	10		10	10	10	10	10
1E-0	11		10	10	10	10	10
1E-1	22			10	10	10	10
1E-2	30			28	10	10	10
1E-3	35				10	10	10
1E-4	40				34	10	10
1E-5	70						63
1E-6							
1E-7							

Leakage - 23 ± 2 °C / 20 bar

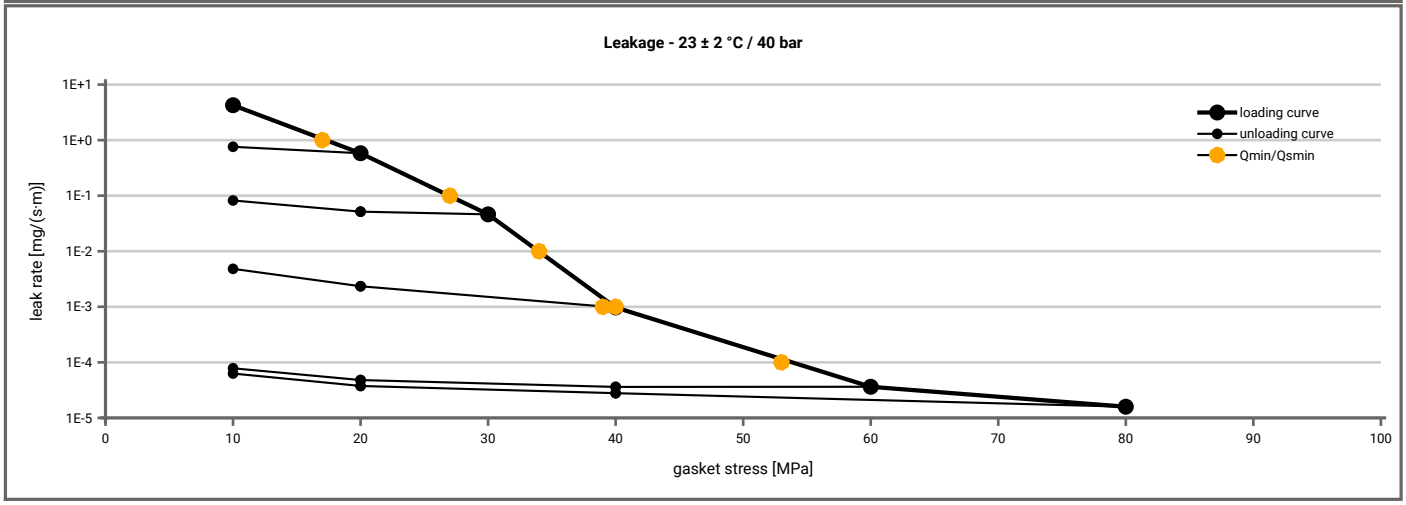


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2022-09-26**

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 6 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	17		10	10	10	10	10
1E-1	27			10	10	10	10
1E-2	34				10	10	10
1E-3	40				39	10	10
1E-4	54					10	10
1E-5							
1E-6							
1E-7							



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2022-09-26**

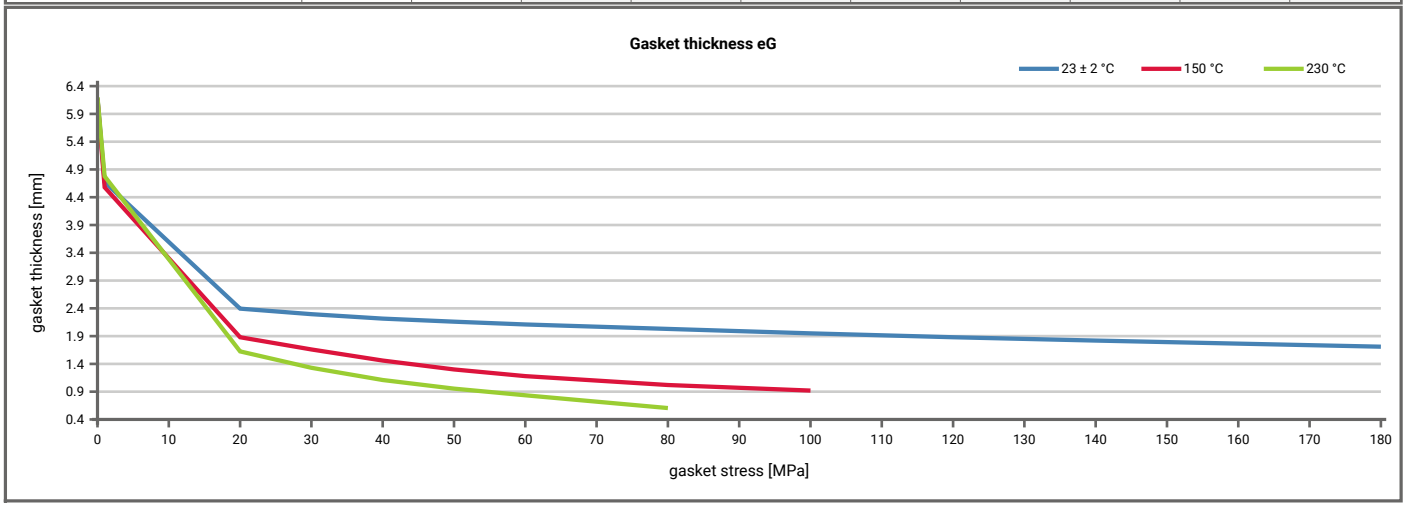
Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to **EN 13555 2021-4**
Product name	MultiTex Sheet & Ring 2.0	
Product dimensions	92 x 49 x 6 mm	

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]	0.75	42	0.37	107	0.31	117				
Stress level 2 [30 MPa]	0.81	49	0.38	157	0.28	183				
Stress level 3 [50 MPa]	0.84	67	0.35	273	0.25	315				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.88	189	0.32	628	0.25	507				
Q_{smax}	180 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	6.185	0	6.170	0	6.200				
1	0	4.673	0	4.579	0	4.777				
20	547	2.395	681	1.880	496	1.625				
30	925	2.295	1005	1.660	713	1.330				
40	1324	2.215	1299	1.460	889	1.110				
50	1724	2.160	1565	1.300	1065	0.955				
60	2076	2.110	1796	1.180	1331	0.835				
80	2617	2.030	2352	1.020	2805	0.605				
100	2923	1.950	2614	0.920						
120	3114	1.880								
140	3235	1.820								
160	3357	1.765								
180	3704	1.710								



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: **2022-09-26**