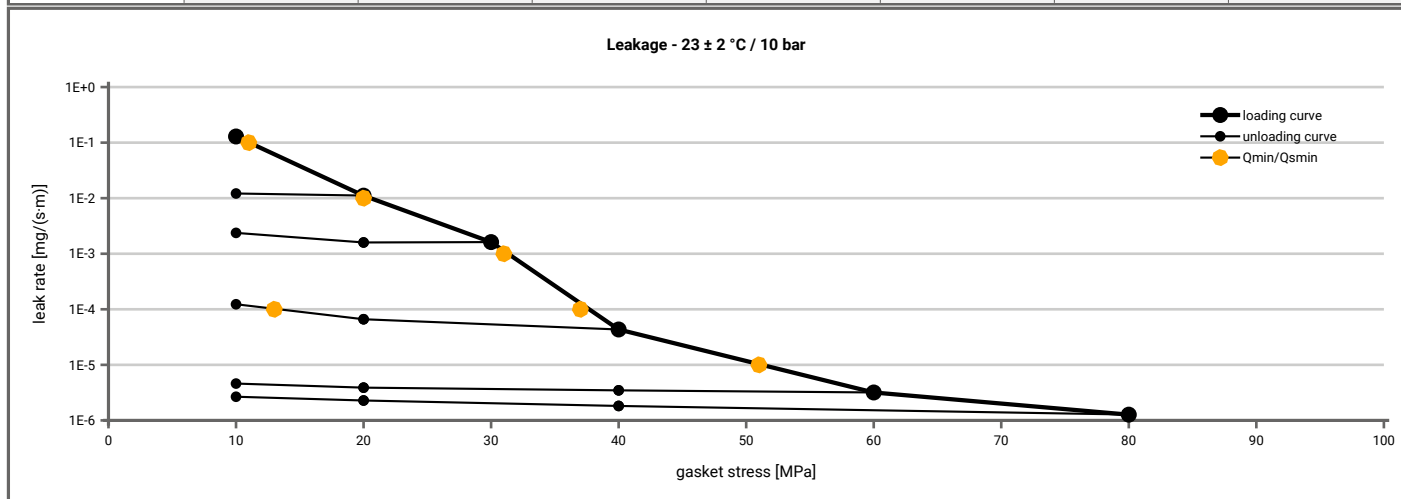
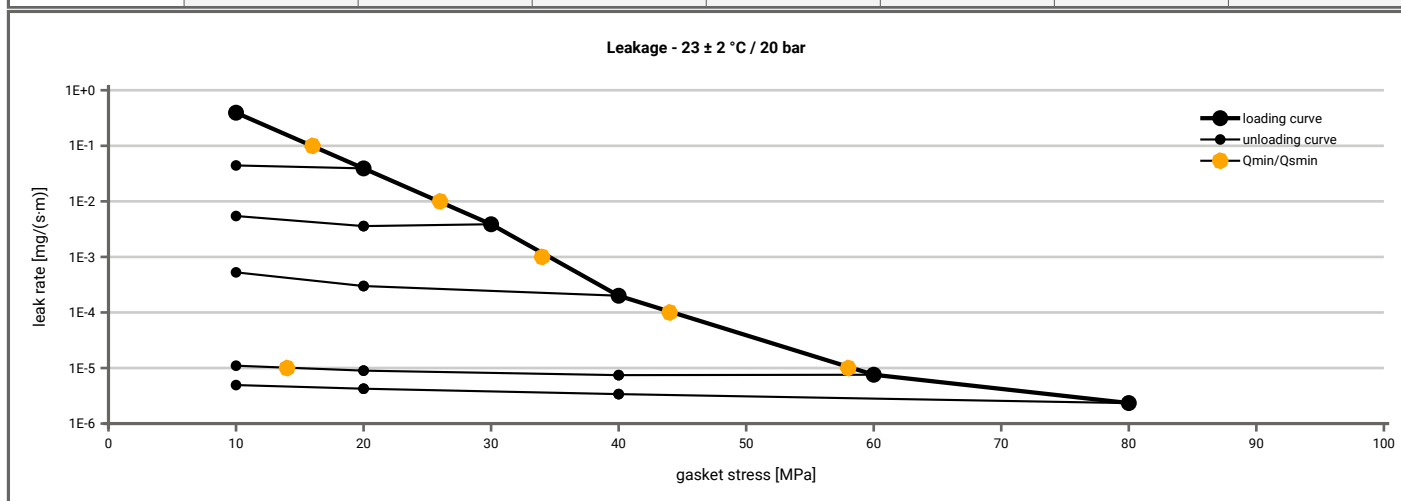


Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to EN 13555 2021-4
Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 2 mm	

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]					
		$Q_A = 10$ [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	11		10	10	10	10	10
1E-2	21			10	10	10	10
1E-3	31				10	10	10
1E-4	38				13	10	10
1E-5	51					10	10
1E-6							
1E-7							



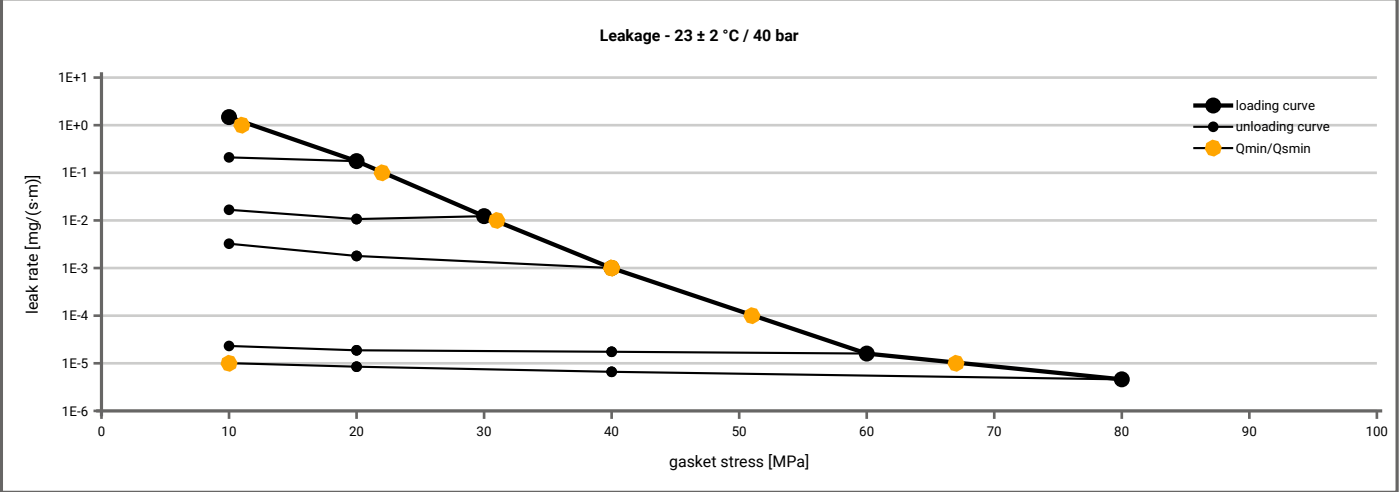
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	16		10	10	10	10	10
1E-2	26			10	10	10	10
1E-3	35				10	10	10
1E-4	44					10	10
1E-5	58					15	10
1E-6							
1E-7							



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 3	Creation date of this sheet: 2022-04-26
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Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 2 mm	

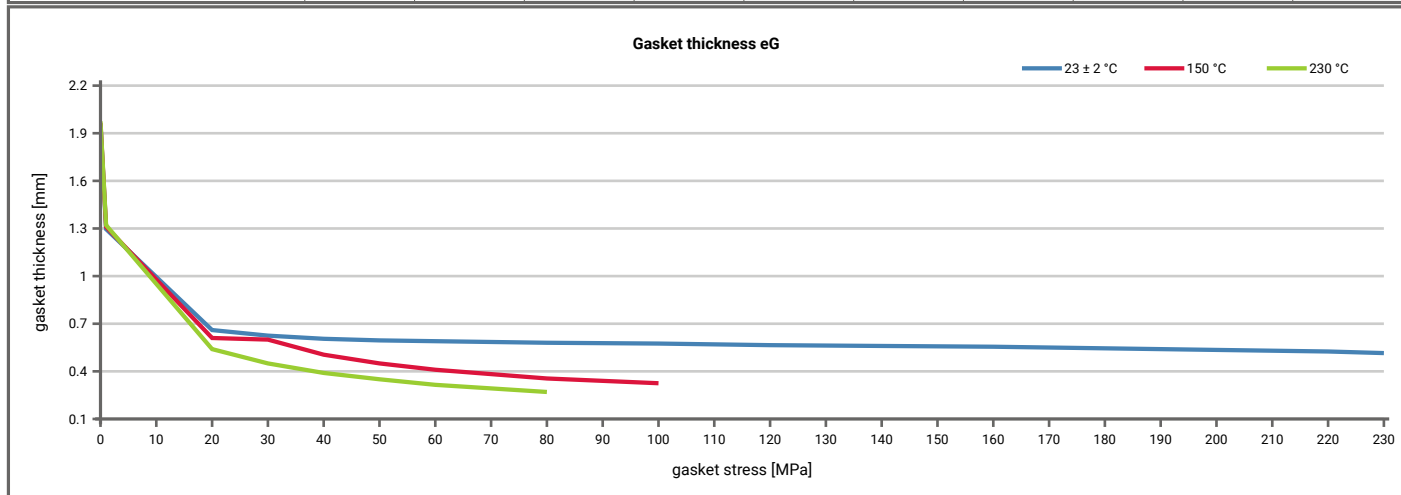
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	10		10	10	10	10	10
1E-0	12		10	10	10	10	10
1E-1	22			10	10	10	10
1E-2	31				10	10	10
1E-3	40				40	10	10
1E-4	51					10	10
1E-5	68						11
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]	0.88	20	0.72	47	0.77	39				
Stress level 2 [30 MPa]	0.93	18	0.82	47	0.62	97				
Stress level 3 [50 MPa]	0.98	8	0.71	122	0.59	174				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.98	39	0.73	254	0.62	258				
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	1.960	0	1.965	0	1.975				
1	0	1.296	0	1.310	0	1.321				
20	598	0.660	1960	0.610	1216	0.540				
30	1011	0.625	1769	0.600	1182	0.450				
40	1470	0.605	2320	0.505	1170	0.390				
50	1933	0.595	2220	0.450	1262	0.350				
60	2375	0.590	2321	0.410	1342	0.315				
80	3010	0.580	2440	0.355	1368	0.270				
100	3349	0.575	2279	0.325						
120	3485	0.565								
140	3685	0.560								
160	3750	0.555								
180	3825	0.545								
200	3865	0.535								
220	3972	0.525								
230	3816	0.515								



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