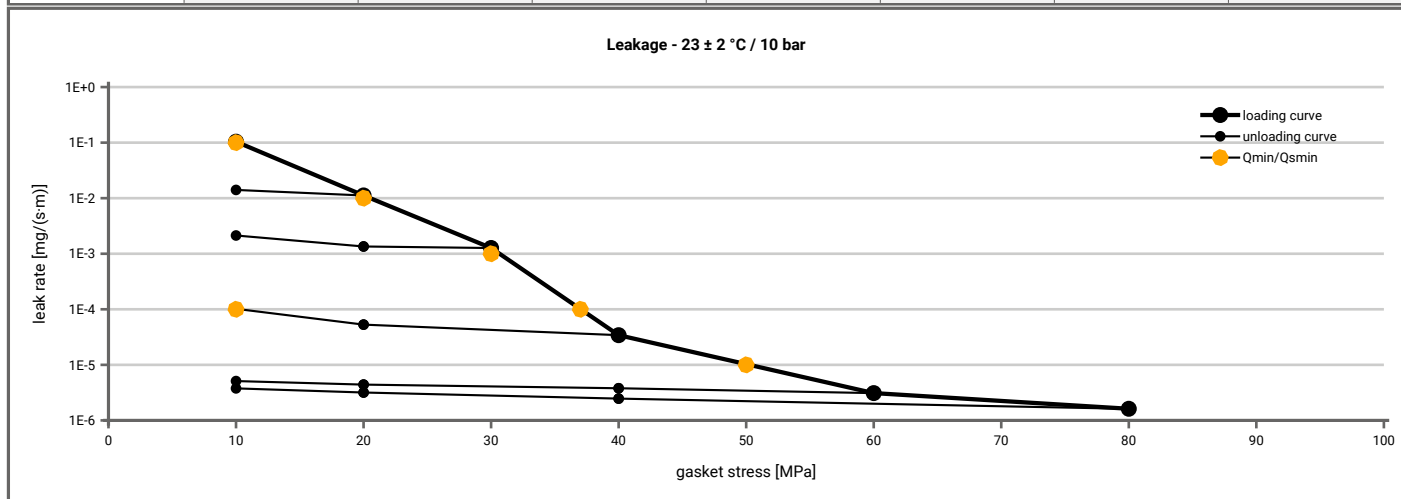
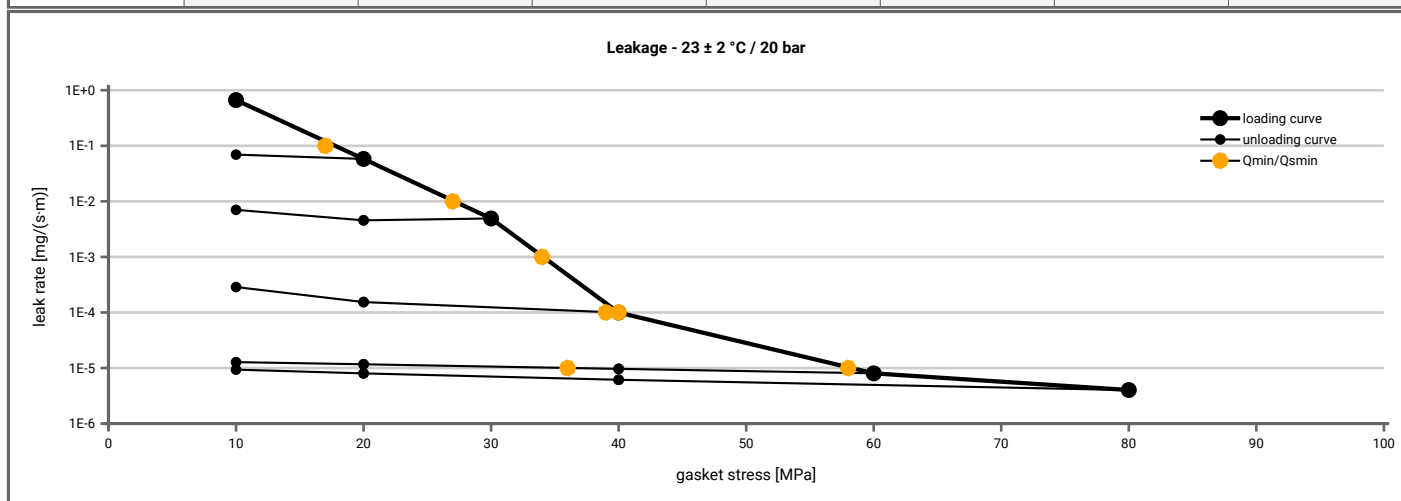


Manufacturer address	KWO Dichtungstechnik GmbH, Am Eschengrund 3, 83135 Schechen, DE	According to EN 13555 2021-4
Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 3 mm	

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]					
		$Q_A = 10$ [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	21			10	10	10	10
1E-3	31				10	10	10
1E-4	37				10	10	10
1E-5	50					10	10
1E-6							
1E-7							



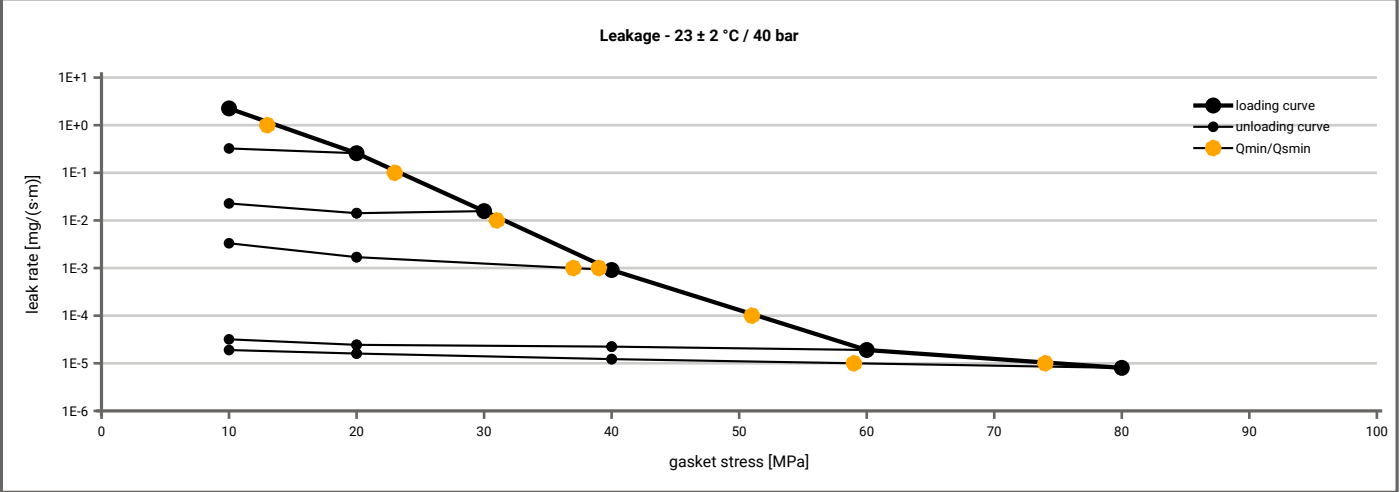
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	18		10	10	10	10	10
1E-2	27			10	10	10	10
1E-3	34				10	10	10
1E-4	40				40	10	10
1E-5	58					36	10
1E-6							
1E-7							



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 2	Creation date of this sheet: 2022-02-28
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Product name	MultiTex® Sheet & Ring 2.0	
Product dimensions	92 x 49 x 3 mm	

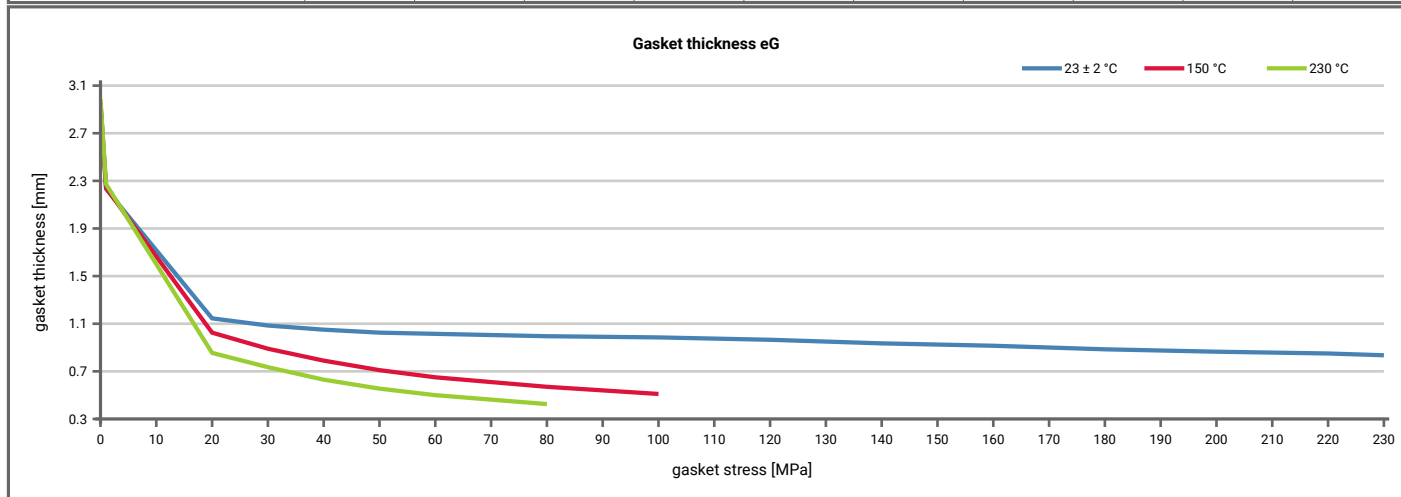
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40\text{ bar}$ ($T = 23 \pm 2\text{ }^{\circ}\text{C}$)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 10\text{ [MPa]}$	$Q_A = 20\text{ [MPa]}$	$Q_A = 30\text{ [MPa]}$	$Q_A = 40\text{ [MPa]}$	$Q_A = 60\text{ [MPa]}$	$Q_A = 80\text{ [MPa]}$
1E+1	10		10	10	10	10	10
1E-0	14		10	10	10	10	10
1E-1	23			10	10	10	10
1E-2	32				10	10	10
1E-3	40				37	10	10
1E-4	51					10	10
1E-5	75						59
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]	0.83	29	0.56	74	0.53	79				
Stress level 2 [30 MPa]	0.89	28	0.61	98	0.45	140				
Stress level 3 [50 MPa]	0.96	17	0.56	185	0.43	239				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.97	58	0.55	415	0.44	376				
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	2.945	0	2.955	0	2.985				
1	0	2.232	0	2.240	0	2.272				
20	554	1.145	1216	1.025	791	0.855				
30	961	1.085	1477	0.890	932	0.735				
40	1424	1.050	1741	0.790	1076	0.630				
50	1885	1.025	1887	0.710	1208	0.555				
60	2318	1.015	2065	0.650	1281	0.500				
80	2921	0.995	2484	0.570	1474	0.425				
100	3229	0.985	2478	0.510						
120	3553	0.965								
140	3741	0.935								
160	3745	0.915								
180	3760	0.885								
200	3823	0.865								
220	3846	0.850								
230	3725	0.835								



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