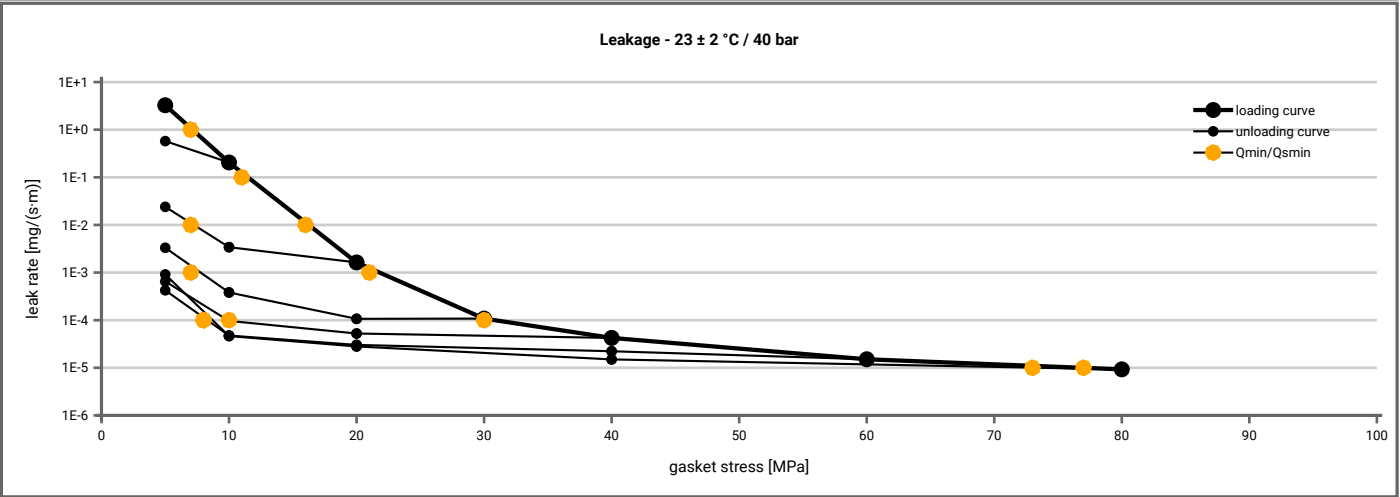


Manufacturer address	Planichem, Via Consolare 41-43, 25030 Zocco di Erbusco (BS), IT	According to DIN EN 13555 2014-7
Product name	SICHEM S11	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

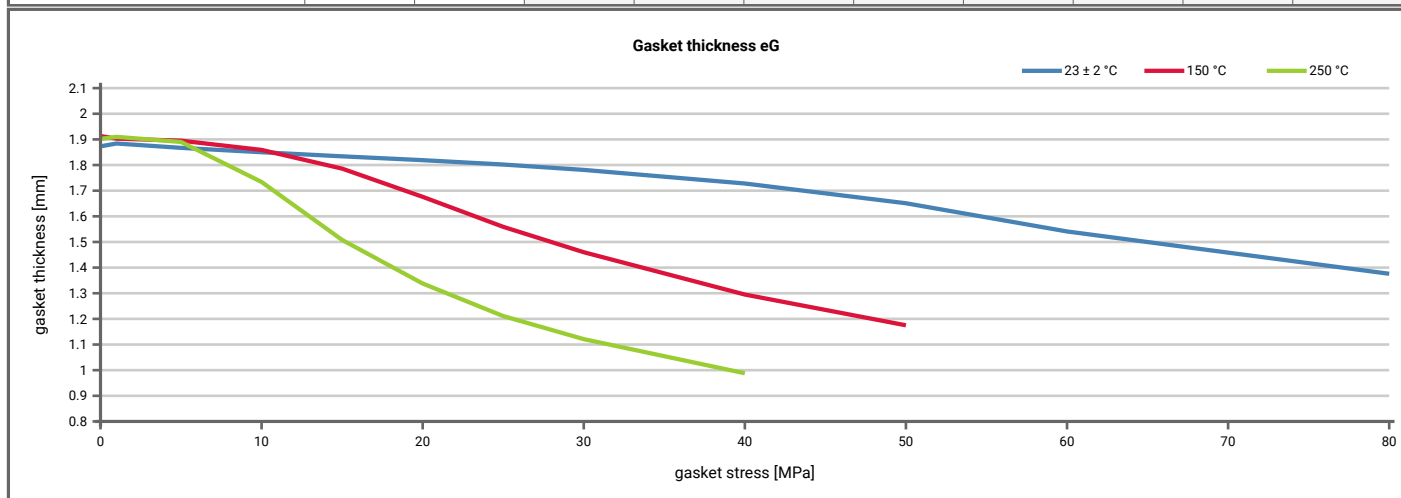
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)								
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	5		5	5	5	5	5	5
1E-0	7		5	5	5	5	5	5
1E-1	12			5	5	5	5	5
1E-2	16			7	5	5	5	5
1E-3	22				8	5	5	5
1E-4	31					10	8	9
1E-5	77							74
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 [250 °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 [10 MPa]	0.97	3	0.73	23	0.50	42				
Stress level 2 [30 MPa]	0.92	20	0.53	120	0.32	171				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.91	60	0.53	197	0.32	228				
Q_{smax}	80 MPa		50 MPa		40 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 [250 °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	1.873	0	1.913	0	1.902				
1	0	1.884	0	1.903	0	1.910				
5	1961	1.867	1057	1.895	432	1.890				
10	1792	1.850	762	1.859	456	1.734				
15	1694	1.834	758	1.786	550	1.508				
20	1963	1.819	874	1.676	675	1.338				
25	2084	1.802	1005	1.559	765	1.211				
30	2130	1.781	1145	1.460	900	1.121				
40	2424	1.728	1467	1.295	1016	0.988				
50	2954	1.651	1626	1.175						
60	3669	1.541								
80	4538	1.376								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2016-03-15
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