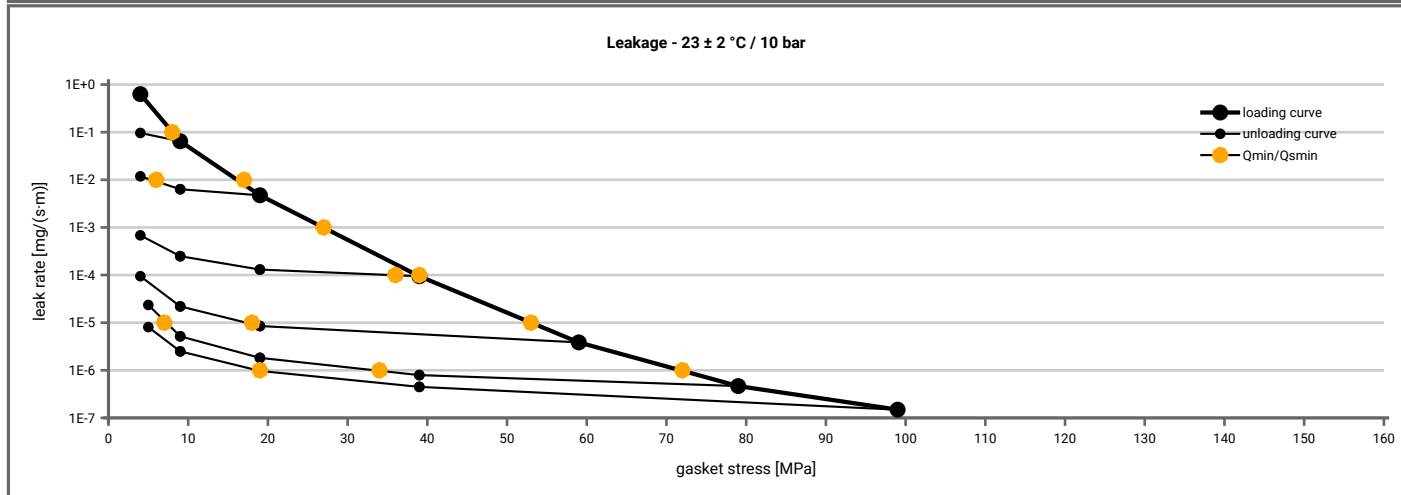
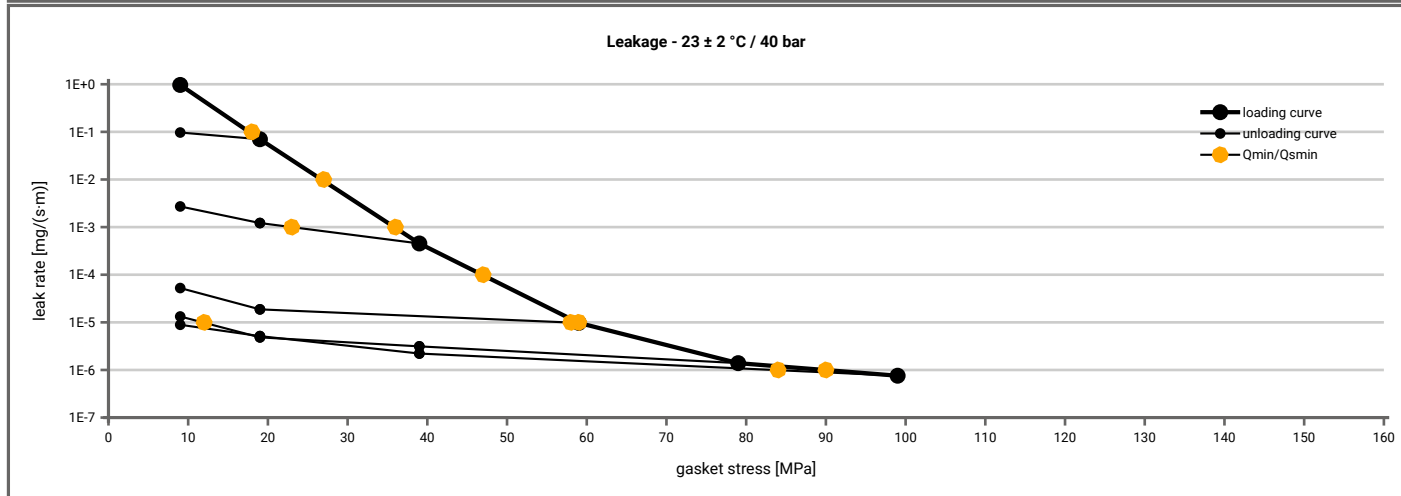


Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to DIN EN 13555 2005-2
Product name	KLINGERSIL® C 4300	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °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]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]
1E-0	5		5	5	5	5	5	5
1E-1	9		5	5	5	5	5	5
1E-2	17			6	5	5	5	5
1E-3	28				5	5	5	5
1E-4	39				36	5	5	5
1E-5	54					18	8	5
1E-6	73						34	20
1E-7								
1E-8								



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.7$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [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	37			24	10	10	10
1E-4	48				10	10	10
1E-5	60				58	13	10
1E-6	91						84
1E-7							
1E-8							

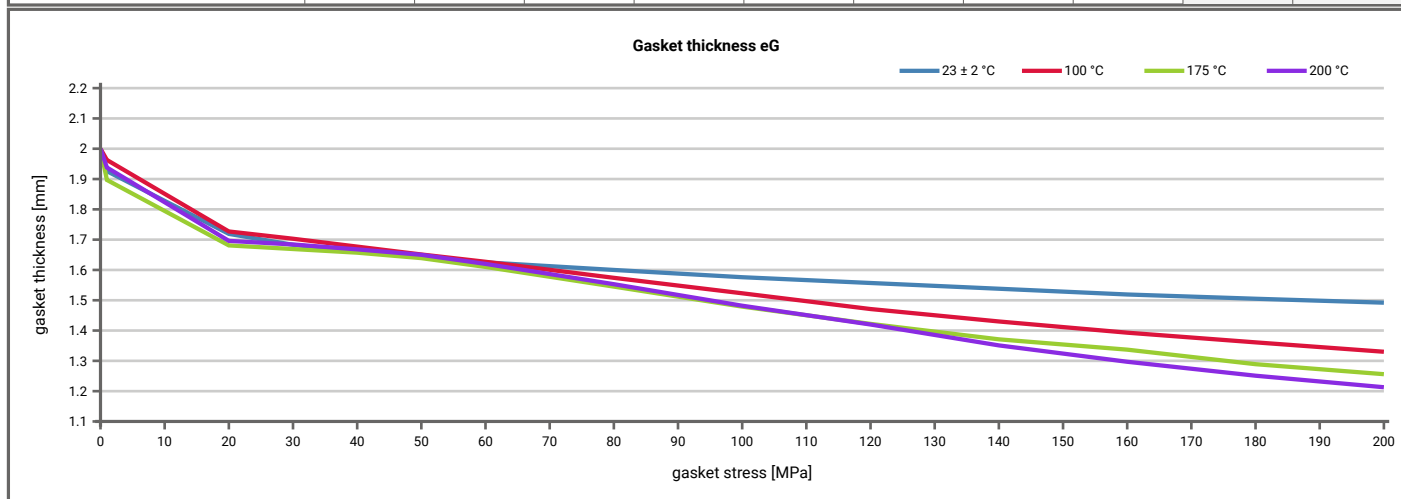


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2012-07-03
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Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to DIN EN 13555 2005-2
Product name	KLINGERSIL® C 4300	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [175 °C]		Temperature 3 [200 °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 [30 MPa]	0.95	13	0.86	37	0.80	50	0.79	53		
Stress level 2 [50 MPa]	0.97	15	0.86	59	0.79	90	0.74	109		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.98	34	0.88	201	0.81	327	0.83	285		
Q_{smax}	200 MPa		200 MPa		200 MPa		200 MPa			

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_g [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [175 °C]		Temperature 3 [200 °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	2.000	0	2.000	0	2.000	0	2.000		
1	0	1.926	0	1.963	0	1.897	0	1.938		
20	1009	1.719	1260	1.727	2106	1.681	2061	1.696		
30	2253	1.683	1963	1.703	3261	1.669	3035	1.684		
40	3735	1.661	2615	1.677	4424	1.657	4269	1.668		
50	4295	1.642	3085	1.651	4934	1.639	4755	1.650		
60	5174	1.625	3806	1.627	5387	1.610	5168	1.620		
80	7294	1.600	5386	1.574	6277	1.545	6033	1.553		
100	5955	1.576	6356	1.523	5334	1.479	5149	1.482		
120	8701	1.557	5185	1.471	4667	1.422	4599	1.420		
140	7555	1.538	6959	1.430	4142	1.371	4285	1.351		
160	6452	1.519	7104	1.393	5877	1.337	4777	1.297		
180	7616	1.505	7493	1.361	4915	1.289	5604	1.251		
200	9767	1.492	6203	1.330	3085	1.256	6528	1.213		



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