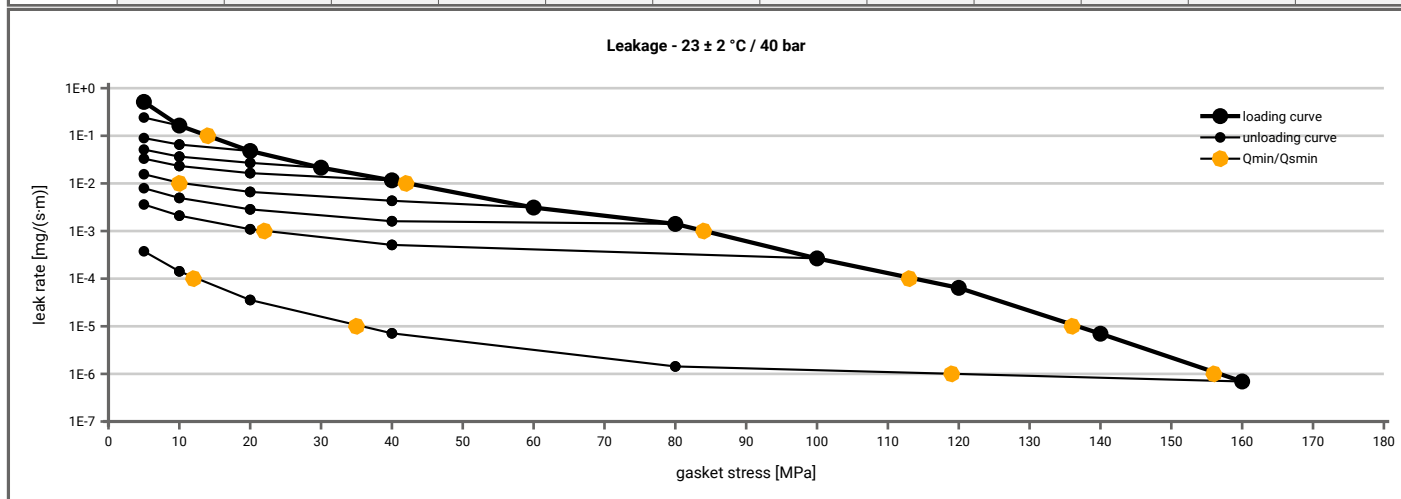


Manufacturer address	Planichem, Via Consolare 41-43, 25030 Zocco di Erbusco (BS), IT	According to DIN EN 13555 2014-7
Product name	FLEXIGRAF® FGS3	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

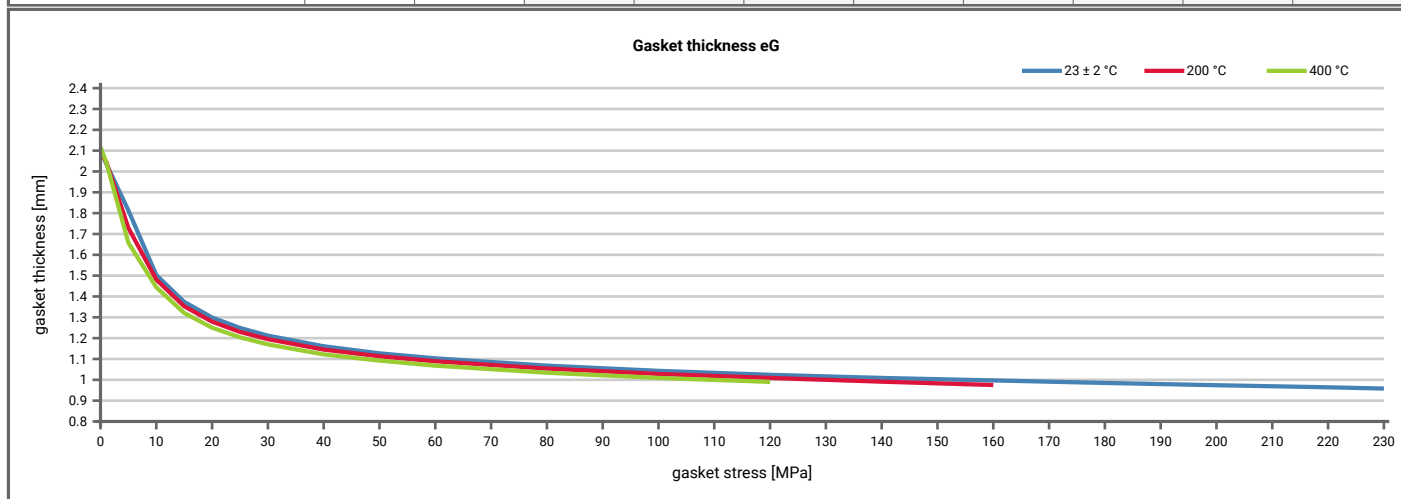
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5		5	5	5	5	5	5	5			5
1E-1	14			5	5	5	5	5	5			5
1E-2	42						11	5	5			5
1E-3	84								22			5
1E-4	114											13
1E-5	137											36
1E-6	157											120
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 [200 °C]		Temperature 2 [400 °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]	0.99	4	0.87	33	0.82	47				
Stress level 2 [50 MPa]	0.99	4	0.93	31	0.88	50				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	19	0.87	175	0.96	40				
Q_{smax}	230 MPa		160 MPa		120 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °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	2.107	0	2.086	0	2.117				
1	0	2.039	0	2.048	0	2.047				
5	102	1.813	121	1.729	124	1.658				
10	206	1.503	219	1.481	228	1.444				
15	321	1.374	324	1.353	345	1.321				
20	443	1.299	454	1.279	455	1.250				
25	572	1.249	592	1.230	592	1.204				
30	708	1.212	733	1.195	712	1.170				
40	992	1.161	1005	1.145	971	1.122				
50	1327	1.127	1299	1.113	1327	1.092				
60	1654	1.103	1612	1.089	1558	1.068				
80	2386	1.068	2267	1.054	2263	1.034				
100	3099	1.043	2944	1.028	2883	1.009				
120	3760	1.024	3420	1.009	3301	0.990				
140	4583	1.009	4122	0.991						
160	5374	0.997	4593	0.975						
180	5898	0.985								
200	6524	0.974								
220	6871	0.964								
230	7039	0.958								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2017-03-20
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