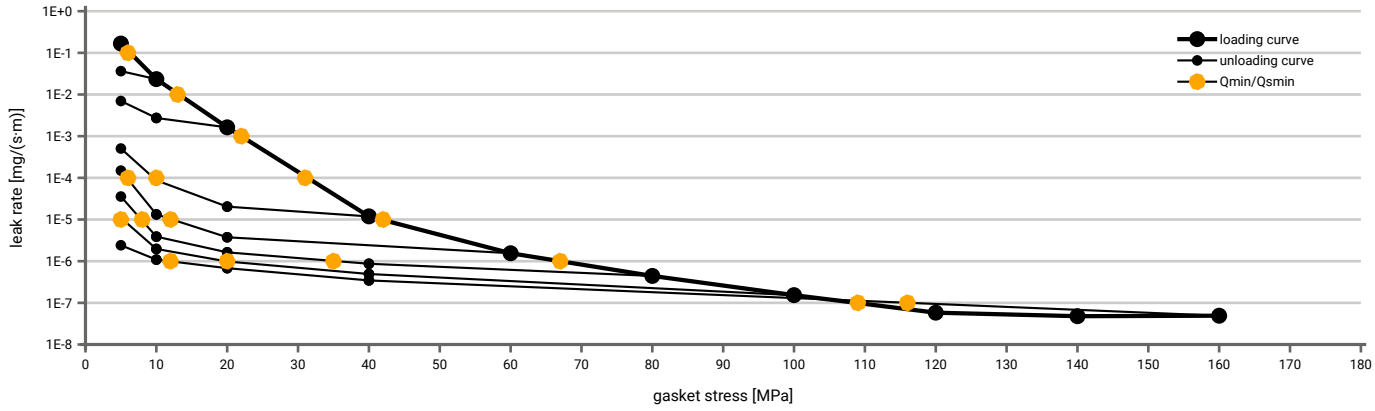
Manufacturer address	Gambit Lubawka Sp. z o.o., ul.Wojska Polskiego 16, 58-420 Lubawka, PL	According to DIN EN 13555 2005-2
Product name	AF-OIL®	
Product dimensions	92 x 49 x 1 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		Q_A = 5.4 [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]	Q_A = 120 [MPa]	Q_A = 140 [MPa]	Q_A = 160 [MPa]
1E-0	5		5	5	5	5	5	5			5
1E-1	7		5	5	5	5	5	5			5
1E-2	14			5	5	5	5	5			5
1E-3	22				5	5	5	5			5
1E-4	32				10	6	5	5			5
1E-5	42					13	8	6			5
1E-6	67						36	20			12
1E-7	109										117
1E-8											

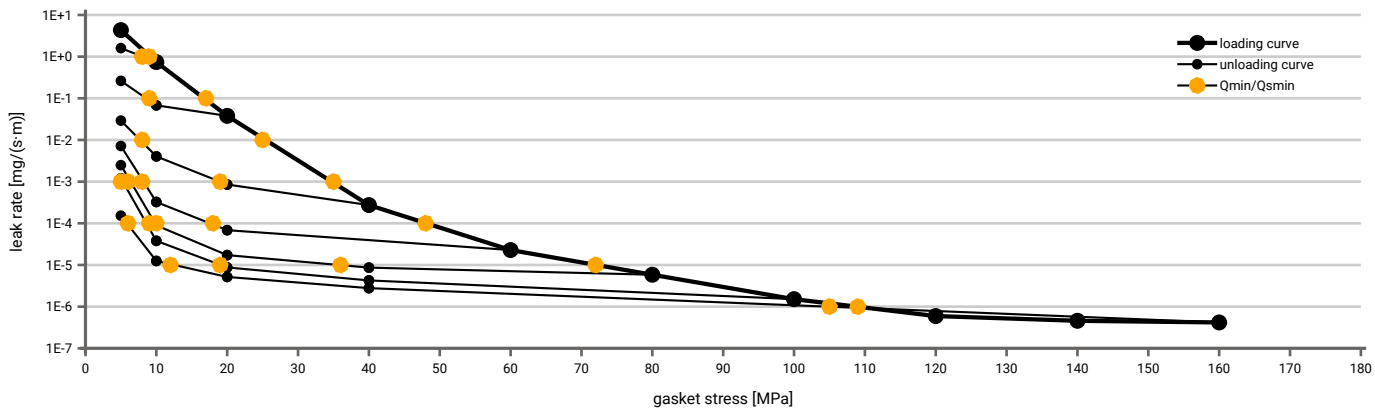
Leakage - 23 ± 2 °C / 10 bar



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 = 5.4 [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]	Q_A = 120 [MPa]	Q_A = 140 [MPa]	Q_A = 160 [MPa]
1E+1	5		5	5	5	5	5	5			5
1E-0	10		8	5	5	5	5	5			5
1E-1	17			9	5	5	5	5			5
1E-2	26				8	5	5	5			5
1E-3	35				19	9	7	6			5
1E-4	49					18	10	9			6
1E-5	73						36	19			13
1E-6	109										105
1E-7											
1E-8											

Leakage - 23 ± 2 °C / 40 bar



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2014-09-18**

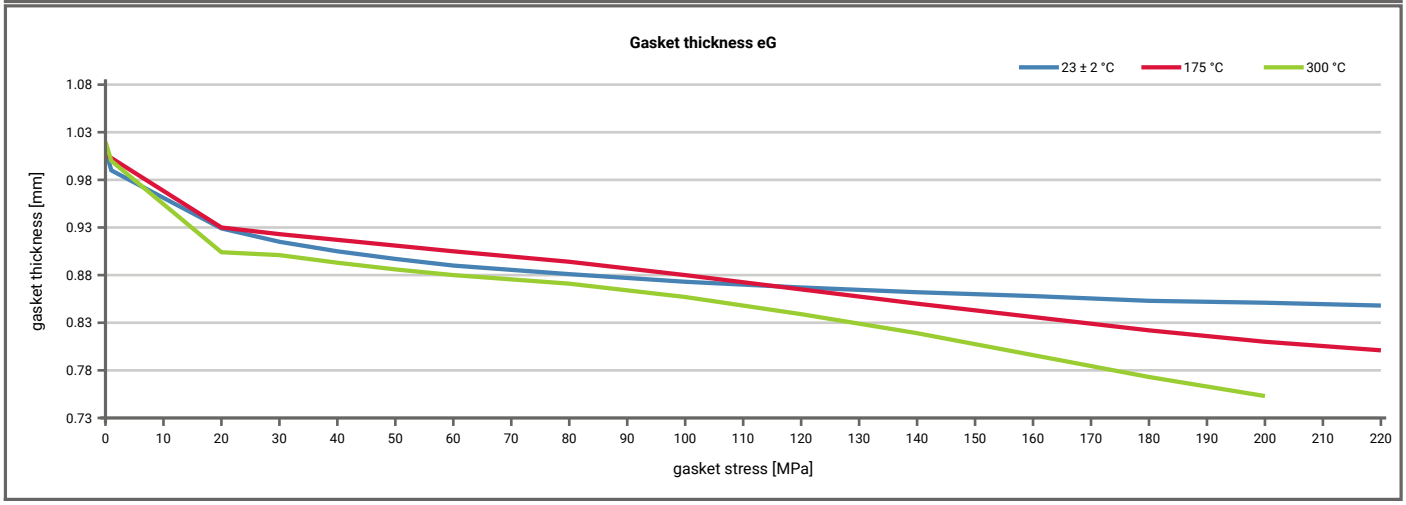
Manufacturer address	Gambit Lubawka Sp. z o.o., ul.Wojska Polskiego 16, 58-420 Lubawka, PL	According to **DIN EN 13555 2005-2**
Product name	AF-OIL®	
Product dimensions	92 x 49 x 1 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]

Gasket stress	23 ± 2 °C		Temperature 1 [175 °C]		Temperature 2 [300 °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]	0.97	8	0.91	24	0.83	44				
Stress level 2 [50 MPa]	0.98	8	0.94	25	0.82	78				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.92	157	0.86	235				
Q_{smax}	220 MPa		220 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 [175 °C]		Temperature 2 [300 °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	1.012	0	1.006	0	1.020				
1	0	0.990	0	1.003	0	1.000				
20	1204	0.929	2309	0.930	2916	0.904				
30	1849	0.915	2378	0.923	7607	0.901				
40	2613	0.905	3239	0.917	5219	0.893				
50	3536	0.897	3841	0.911	5171	0.886				
60	4265	0.890	4115	0.905	4904	0.880				
80	5695	0.881	4586	0.894	5312	0.871				
100	6659	0.873	4474	0.880	5411	0.857				
120	6946	0.867	4979	0.865	5810	0.839				
140	7488	0.862	4783	0.850	5732	0.819				
160	7829	0.858	5085	0.836	6143	0.796				
180	8164	0.853	5323	0.822	6313	0.773				
200	9199	0.851	5582	0.810	7572	0.753				
220	10405	0.848	6337	0.801						



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2014-09-18**