Company Address	*IDT Industrie- und Dichtungstechnik GmbH, Adlerstrasse 18, 45307 Esse*
Gasket Type	*UNIFLUOR WS 7550, FD01*
Thickness e_{GO} [mm]	*2.0*

Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 40 bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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]
10^{-0}									
10^{-1}	12	<5	<5		<5	<5			<5
10^{-2}	15	<5	<5		<5	<5			<5
10^{-3}	19	12	<5		<5	<5			<5
10^{-4}	40		14		6	6			6
10^{-5}	104								79
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio $\mathbf{P_{QR}}$ for stiffness **C** = 500 kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]
Stress level 1 [20 MPa]	0.91	0.74	0.60
Stress level 2 [30 MPa]	0.92	0.74	0.56
Q_{Smax} [235/180/160 MPa]	0.96	0.85	0.76

Maximal applicable gasket stress $\mathbf{Q_{Smax}}$		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [200 °C]
220	180	140

Sekant unloading modulus of the gasket $\mathbf{E_G}$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]
20	1198	1001	1544
30	2245	1108	2902
40	1838	1833	2768
50	2790	1947	2597
60	3614	2411	7332
80	4746	2617	3212
100	7065	3224	5805
120	5347	2953	4877
140	5590	4115	4753
160	4084	4464	
180	5031	3025	
200	4588		
220	3987		
225			

Note: the content of darkened cells was not determined respectively is unnecessary

Creation date of this sheet: *18.05.2009*