Company Address	*Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein (Austria)*
Gasket Type	*TEALON TF1570*
Thickness e_{GO} [mm]	*2*

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	10	10	10	10	10			10
10^{-1}	10	10	10	10	10	10			10
10^{-2}	10	10	10	10	10	10			10
10^{-3}	16	10	10	10	10	10			10
10^{-4}	33		15	14	10	10			10
10^{-5}	83					10			10
10^{-6}	92					39			10
10^{-7}	128								31
10^{-8}									

Relaxation ratio $\mathbf{P_{QR}}$ for stiffness **C** = 500 kN/mm						
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [250 °C]	
Stress level 1 [MPa]	0,77	30 MPA	0,56	30 MPA	0,31	30 MPA
Stress level 2 [MPa]	0,92	140 MPA	0,63	80 MPA	0,42	60 MPA
Q_{Smax} [MPa]	0,98	240 MPA	0,76	120 MPA		

Maximal applicable gasket stress $\mathbf{Q_{smax}}$		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [250 °C]
240	120	60

Sekant unloading modulus of the gasket $\mathbf{E_G}$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
20	1094	595	554
30	1165	1085	730
40	1404	1131	809
50	1887	1305	916
60	2087	1352	1012
80	2512	1487	
100	2612	1972	
120	2658	2074	
140	2633		
160	2527		
180	2449		
200	2335		
220	1722		
240	1657		

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

Creation date of this sheet: *24.07.2007*