

novatec® PREMIUM II thickness: 1.0 mm



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Gasket characteristics acc. DIN EN 13555 (02/2005)

T [°C]	Tightness- class L	Q _{min(L)} [N/mm ²]				Q _{Smin(L)} [N/mm ²]														
						Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]		
		20	40	60	80	20	40	60	80	20	40	60	80	40	60	80				
		P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]		
10	20	40	80	10	20	40	80	10	20	40	80	10	20	40	80					
RT	L _{1.0}	< 5	< 10	< 10	< 20	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	L _{0.1}	< 5	11	18	36	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	15	< 10	< 10	< 10	23	< 10	< 10
	L _{0.01}	23	44	66	---	---	6	< 5	< 5	---	---	< 10	< 10	---	---	---	21	---	---	---
	L _{0.001}	72	---	---	---	---	---	---	34	---	---	---	---	---	---	---	---	---	---	---
	Q _{Smax} [N/mm ²]	P _{QR} Stiffness 500 kN/mm			E _G [N/mm ²]															
		Q _A [N/mm ²]			Q _A [N/mm ²]															
		30	50	Q _{Smax}	10	20	30	40	50	60	70	80	100	120	140	160	180	200	220	
RT	> 220	0.97	0.98	0.99	1104	1267	1431	1594	1757	1920	2084	2247	2573	2900	3226	3553	3879	4206	4532	
100	180	0.91	0.93	0.98	1000	1159	1318	1477	1636	1794	1953	2112	2429	2747	3064	3382	3699	---	---	
200	130	0.90	0.91	0.94	954	1105	1256	1407	1557	1708	1859	2010	2311	2613	---	---	---	---	---	
300	120	0.78	0.85	0.91	2208	2235	2263	2290	2317	2344	2372	2399	2453	2508	---	---	---	---	---	

Test sample: DN40/PN40 acc. EN 1514-1: 49 x 92 mm

Please note:

All previous data cease to apply. You may take all current versions from the website www.frenzelit.com or ask at Frenzelit directly. The values have been determined with standard laboratory equipment. In view of the variety of different installation and operation conditions and process engineering options, there is no basis for warranty claims referring to the behaviour of the sealing joint. Subject to technical changes and printing errors.

novatec® PREMIUM II thickness: 2.0 mm



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T [°C]	Tightness- class L	Q _{min(L)} [N/mm ²]				Q _{Smin(L)} [N/mm ²]															
						Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]			
		20	40	60	80	20	40	60	80	20	40	60	80	40	60	80					
		P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]			
10	20	40	80	10	20	40	80	10	20	40	80	10	20	40	80						
RT	L _{1.0}	< 5	< 10	< 10	< 20	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	L _{0.1}	6	14	25	45	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	---	< 10	< 10	< 10	---	14	< 10	
	L _{0.01}	31	48	67	---	---	12	< 5	< 5	---	---	19	< 10	---	---	---	24	---	---	---	
	L _{0.001}	75	---	---	---	---	---	---	35	---	---	---	---	---	---	---	---	---	---	---	
	Q _{Smax} [N/mm ²]	P _{QR} Stiffness 500 kN/mm			E _G [N/mm ²]																
		Q _A [N/mm ²]			Q _A [N/mm ²]																
		30	50	Q _{Smax}	10	20	30	40	50	60	70	80	100	120	140	160	180	200	220		
RT	> 220	0.95	0.97	0.98	964	1197	1430	1662	1895	2128	2360	2593	3058	3524	3989	4454	4919	5385	5850		
100	120	0.89	0.91	0.93	983	1197	1410	1624	1838	2051	2265	2478	2906	3333	---	---	---	---	---		
200	80	0.85	0.88	0.89	1017	1249	1482	1714	1946	2179	2411	2644	---	---	---	---	---	---	---		
300	60	0.75	0.80	0.81	1901	2223	2545	2867	3189	3511	---	---	---	---	---	---	---	---	---		

Test sample: DN40/PN40 acc. EN 1514-1: 49 x 92 mm

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novatec® PREMIUM II thickness: 3.0 mm



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T [°C]	Tightness- class L	Q _{min(L)} [N/mm ²]				Q _{Smin(L)} [N/mm ²]															
						Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]				Q _A [N/mm ²]			
		20	40	60	80	20	40	60	80	20	40	60	80	40	60	80					
		P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]				P _i [bar]			
10 20 40 80				10				20				40				80					
RT	L _{1.0}	< 5	< 10	< 10	< 20	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	L _{0.1}	9	19	36	63	< 5	< 5	< 5	< 5	16	< 10	< 10	< 10	---	19	< 10	< 10	---	---	13	
	L _{0.01}	52	66	---	---	---	---	28	7	---	---	---	20	---	---	---	---	---	---	---	
	L _{0.001}	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Q _{Smax} [N/mm ²]	P _{QR} Stiffness 500 kN/mm			E _G [N/mm ²]																
		Q _A [N/mm ²]			Q _A [N/mm ²]																
		30	50	Q _{Smax}	10	20	30	40	50	60	70	80	100	120	140	160	180	200	220		
RT	100	0.93	0.94	0.95	728	1031	1334	1638	1941	2244	2547	2851	3457	---	---	---	---	---	---		
100	80	0.76	0.78	0.80	556	856	1157	1458	1758	2059	2360	2660	---	---	---	---	---	---	---		
200	60	0.67	0.74	0.75	776	1088	1400	1712	2025	2337	---	---	---	---	---	---	---	---	---		
300	50	0.48	0.58	0.60	1509	1837	2164	2491	2818	---	---	---	---	---	---	---	---	---	---		

Test sample: DN40/PN40 acc. EN 1514-1: 49 x 92 mm

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