novatec® PREMIUM II

Gasket Characteristics acc. DIN 28090-1, AD-Merkblatt B7, DIN V 2505, ASME-Code

Frenzelit
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DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)											AD-Merkblatt B7 DIN V 2505		ASME-Code		
P_I	Dicke h_D	σ_{VU}	σ_{VO}	m	σ_{BO}					$b_D : h_D$	$k_0 \times K_D$	k_1	m	y	y
[bar]	[mm]	[N/mm²]	[N/mm²]		[N/mm²]						[N/mm]	[mm]		[psi]	[N/mm²]
					20 °C	100 °C	200 °C	300 °C	400 °C						
10	1.0	6	190	1.3	190	145	85	75	30	10 : 1	6 x b_D	1.3 x b_D	2.5	870	6
	1.5	7	145	1.3	155	100	70	60	25	6.7 : 1	7 x b_D	1.3 x b_D	2.5	1015	7
	2.0	8	120	1.3	140	75	60	50	20	5 : 1	8 x b_D	1.3 x b_D	2.5	1160	8
	3.0	16	100	1.3	100	60	50	45	15	3.3 : 1	16 x b_D	1.3 x b_D	2.5	2320	16
16	1.0	8	190	1.3	190	145	85	75	30	10 : 1	8 x b_D	1.3 x b_D	2.5	1160	8
	1.5	9	145	1.3	155	100	70	60	25	6.7 : 1	9 x b_D	1.3 x b_D	2.5	1305	9
	2.0	10	120	1.3	140	75	60	50	20	5 : 1	10 x b_D	1.3 x b_D	2.5	1450	10
	3.0	25	100	1.3	100	60	50	45	15	3.3 : 1	25 x b_D	1.3 x b_D	2.5	3625	25
25	1.0	13	190	1.3	190	145	85	75	30	10 : 1	13 x b_D	1.3 x b_D	2.5	1885	13
	1.5	16	145	1.3	155	100	70	60	25	6.7 : 1	16 x b_D	1.3 x b_D	2.5	2320	16
	2.0	17	120	1.3	140	75	60	50	20	5 : 1	17 x b_D	1.3 x b_D	2.5	2465	17
	3.0	38	100	1.3	100	60	50	45	15	3.3 : 1	38 x b_D	1.3 x b_D	2.5	5510	38
40	1.0	16	190	1.3	190	145	85	75	30	10 : 1	16 x b_D	1.3 x b_D	2.5	2320	16
	1.5	21	145	1.3	155	100	70	60	25	6.7 : 1	21 x b_D	1.3 x b_D	2.5	3045	21
	2.0	26	120	1.3	140	75	60	50	20	5 : 1	26 x b_D	1.3 x b_D	2.5	3770	26
	3.0	53	100	1.3	100	60	50	45	15	3.3 : 1	53 x b_D	1.3 x b_D	2.5	7685	53

m The m-factor is a value to describe the minimum surface pressure under operating conditions. Up to now there does not exist a definite test specification. The m-factor can be looked at in different ways and depends on the tightness class, the temperature and the surface pressure in the installed state. Within the Brite EuRam research project m-factors between 1.3 and 3.8 were found as average values for graphite gaskets. The user may judge to calculate with different factors (e.g. m = 2).

m The m-factors according to DIN 28090 and ASME-code are defined variably - from this reason the values differ

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.

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