

Gasket Constants acc. DIN 28090-1, AD-Merkblatt B7, DIN V 2505

DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)										AD-Merkblatt B7 DIN V 2505		
P <sub>i</sub>	Dicke h <sub>D</sub>	σ <sub>VU</sub>	σ <sub>VO</sub>	m	σ <sub>BO</sub>					b <sub>D</sub> : h <sub>D</sub>	k <sub>0</sub> x K <sub>D</sub>	k <sub>1</sub>
[bar]	[mm]	[N/mm <sup>2</sup> ]	[N/mm <sup>2</sup> ]		[N/mm <sup>2</sup> ]						[N/mm]	[mm]
					20°C	100°C	200°C	300°C	400°C			
10	1.0	12	190	1.3	190	145	90	80	30	10 : 1	12 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	1.5	15	145	1.3	145	100	75	70	25	6.7 : 1	15 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	2.0	18	120	1.3	120	75	65	60	20	5 : 1	18 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	3.0	24	100	1.3	100	65	55	50	15	3.3 : 1	24 x b <sub>D</sub>	1.3 x b <sub>D</sub>
16	1.0	16	190	1.3	190	145	90	80	30	10 : 1	16 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	1.5	19	145	1.3	145	100	75	70	25	6.7 : 1	19 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	2.0	23	120	1.3	120	75	65	60	20	5 : 1	23 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	3.0	31	100	1.3	100	65	55	50	15	3.3 : 1	31 x b <sub>D</sub>	1.3 x b <sub>D</sub>
25	1.0	18	190	1.3	190	145	90	80	30	10 : 1	18 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	1.5	21	145	1.3	145	100	75	70	25	6.7 : 1	21 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	2.0	25	120	1.3	120	75	65	60	20	5 : 1	25 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	3.0	38	100	1.3	100	65	55	50	15	3.3 : 1	38 x b <sub>D</sub>	1.3 x b <sub>D</sub>
40	1.0	20	190	1.3	190	145	90	80	30	10 : 1	20 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	1.5	25	145	1.3	145	100	75	70	25	6.7 : 1	25 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	2.0	30	120	1.3	120	75	65	60	20	5 : 1	30 x b <sub>D</sub>	1.3 x b <sub>D</sub>
	3.0	46	100	1.3	100	65	55	50	15	3.3 : 1	46 x b <sub>D</sub>	1.3 x b <sub>D</sub>

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).

**Please note:**

All previous data cease to apply. You may take all current versions from the website [www.frenzelit.com](http://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.