

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

DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2)										AD-Merkblatt B7 DIN V 2505		ASME-Code			
P <sub>1</sub>	thick. 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>	m	y	y
[bar]	[mm]	[N/mm <sup>2</sup> ]	[N/mm <sup>2</sup> ]		[N/mm <sup>2</sup> ]						[N/mm]	[mm]		[psi]	[N/mm <sup>2</sup> ]
					20°C	100°C	200°C	300°C	400°C						
1	1.0	< 10	360	1.3	360	300	200	150	150	10 : 1	10 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1450	10
	1.5	< 10	300	1.3	300	250	200	150	150	6.7 : 1	10 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1450	10
	2.0	< 10	300	1.3	300	200	180	150	150	5 : 1	10 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1450	10
	3.0	< 10	200	1.3	200	150	130	100	100	3.3 : 1	10 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	1450	10
5	1.0	17	360	1.3	360	300	200	150	150	10 : 1	17 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2465	17
	1.5	20	300	1.3	300	250	200	150	150	6.7 : 1	20 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	2900	20
	2.0	25	300	1.3	300	200	180	150	150	5 : 1	25 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	3625	25
	3.0	35	200	1.3	200	150	130	100	100	3.3 : 1	35 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	5075	35
10	1.0	30	360	1.3	360	300	200	150	150	10 : 1	30 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	4350	30
	1.5	35	300	1.3	300	250	200	150	150	6.7 : 1	35 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	5075	35
	2.0	44	300	1.3	300	200	180	150	150	5 : 1	44 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	6380	44
	3.0	60	200	1.3	200	150	130	100	100	3.3 : 1	60 x b <sub>D</sub>	1.3 x b <sub>D</sub>	2.5	8700	60

σ<sub>VU</sub> Ermittelt bei Leckageklasse L<sub>1,0</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).

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](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.