

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 x K _D	k ₁	m	y	y
[bar]	[mm]	[N/mm ²]	[N/mm ²]		[N/mm ²]							[N/mm]	[mm]		[psi]	[N/mm ²]
					20°C	100°C	200°C	300°C	400°C	500°C						
10	1.0	10	175	1.3	175	165	155	150	150	150	10 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	1.5	10	120	1.3	120	110	105	100	100	100	6.7 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	2.0	10	90	1.3	90	90	85	85	85	85	5 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	3.0	25	70	1.3	70	70	70	65	65	65	3.3 : 1	25 x b _D	1.3 x b _D	2.5	3625	25
16	1.0	10	175	1.3	175	165	155	150	150	150	10 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	1.5	10	120	1.3	120	110	105	100	100	100	6.7 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	2.0	10	90	1.3	90	90	85	85	85	85	5 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	3.0	34	70	1.3	70	70	70	65	65	65	3.3 : 1	34 x b _D	1.3 x b _D	2.5	4930	34
25	1.0	10	175	1.3	175	165	155	150	150	150	10 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	1.5	11	120	1.3	120	110	105	100	100	100	6.7 : 1	11 x b _D	1.3 x b _D	2.5	1595	11
	2.0	12	90	1.3	90	90	85	85	85	85	5 : 1	12 x b _D	1.3 x b _D	2.5	1740	12
	3.0	47	70	1.3	70	70	70	65	65	65	3.3 : 1	47 x b _D	1.3 x b _D	2.5	6815	47
40	1.0	10	175	1.3	175	165	155	150	150	150	10 : 1	10 x b _D	1.3 x b _D	2.5	1450	10
	1.5	14	120	1.3	120	110	105	100	100	100	6.7 : 1	14 x b _D	1.3 x b _D	2.5	2030	14
	2.0	17	90	1.3	90	90	85	85	85	85	5 : 1	17 x b _D	1.3 x b _D	2.5	2465	17
	3.0	50	70	1.3	70	70	70	65	65	65	3.3 : 1	50 x b _D	1.3 x b _D	2.5	7250	50
80	1.0	20	175	1.3	175	165	155	150	150	150	10 : 1	20 x b _D	1.3 x b _D	2.5	2900	20
	1.5	25	120	1.3	120	110	105	100	100	100	6.7 : 1	25 x b _D	1.3 x b _D	2.5	3625	25
	2.0	27	90	1.3	90	90	85	85	85	85	5 : 1	27 x b _D	1.3 x b _D	2.5	3915	27
	3.0	75	70	1.3	70	70	70	65	65	65	3.3 : 1	75 x b _D	1.3 x b _D	2.5	10875	75

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.