

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 _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						
10	1.0	15	525	1.3	525	180	120	35	-	10 : 1	15 x b _D	1.3 x b _D	2.5	2175	15
	1.5	13	385	1.3	385	130	85	35	-	6.7 : 1	13 x b _D	1.3 x b _D	2.5	1885	13
	2.0	13	315	1.3	315	90	60	35	-	5 : 1	13 x b _D	1.3 x b _D	2.5	1885	13
	3.0	21	245	1.3	245	55	35	20	-	3.3 : 1	21 x b _D	1.3 x b _D	2.5	3045	21
25	1.0	21	525	1.3	525	180	120	35	-	10 : 1	21 x b _D	1.3 x b _D	2.5	3045	21
	1.5	18	385	1.3	385	130	85	35	-	6.7 : 1	18 x b _D	1.3 x b _D	2.5	2610	18
	2.0	18	315	1.3	315	90	60	35	-	5 : 1	18 x b _D	1.3 x b _D	2.5	2610	18
	3.0	25	245	1.3	245	55	35	20	-	3.3 : 1	25 x b _D	1.3 x b _D	2.5	3625	25
40	1.0	25	525	1.3	525	180	120	35	-	10 : 1	25 x b _D	1.3 x b _D	2.5	3625	25
	1.5	22	385	1.3	385	130	85	35	-	6.7 : 1	22 x b _D	1.3 x b _D	2.5	3190	22
	2.0	22	315	1.3	315	90	60	35	-	5 : 1	22 x b _D	1.3 x b _D	2.5	3190	22
	3.0	30	245	1.3	245	55	35	20	-	3.3 : 1	30 x b _D	1.3 x b _D	2.5	5220	30
100	1.0	36	525	1.3	525	180	120	35	-	10 : 1	36 x b _D	1.3 x b _D	2.5	5220	36
	1.5	35	385	1.3	385	130	85	35	-	6.7 : 1	35 x b _D	1.3 x b _D	2.5	5075	35
	2.0	35	315	1.3	315	90	60	35	-	5 : 1	35 x b _D	1.3 x b _D	2.5	5075	35
	3.0	40	245	1.3	245	55	35	20	-	3.3 : 1	40 x b _D	1.3 x b _D	2.5	5800	40

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.