

Buratherm® T 9544/T

Features

Buratherm T 9544/T is a gasket sheet made from graphite and high-grade aramid fibers with a special anti-stick surface coating.

Key physical characteristics (2.0 mm thick)

ID number	DIN 28 091-2	FA-A1-0
Density [g/cm ³]	DIN 28 090-2	1,00
Tensile strength, lengthwise [MPa]	DIN 52 910	2,00
Tensile strength, crosswise [MPa]	DIN 52 910	1,20
Compressive strength $\sigma_{dE/16}$ 175 °C [MPa]	DIN 52 913	40,00
Compressive strength $\sigma_{dE/16}$ 300 °C [MPa]	DIN 52 913	38,00
Compressibility [%]	ASTM F 36 J	45,00
Resiliency [%]	ASTM F 36 J	8,00
Cold compressibility ϵ_{KSW} [%]	DIN 28090-2	6,00
Cold recovery ϵ_{KRW} [%]	DIN 28090-2	3,00
Hot creep ϵ_{WSW} [%]	DIN 28090-2	6
Hot recovery ϵ_{WRW} [%]	DIN 28090-2	2,00
Recovery R [mm]	DIN 28090-2	0,04
Specific leakage rate [mg/(m·s)]	DIN 3535-6	≤0,1
Specific leakage rate $\lambda_{2.0}$ [mg/(m·s)]	DIN 28090-2	≤0,1
Chemical resistance ASTM IRM 903 - Change in weight 5 h/150 °C	ASTM F 146	≤45 %
Chemical resistance ASTM IRM 903 - Change in thickness 5 h/150 °C	ASTM F 146	≤2 %
Chemical resistance ASTM Fuel B - Change in weight 5 h/23 °C	ASTM F 146	≤40 %
Chemical resistance ASTM Fuel B - Change in thickness 5 h/23 °C	ASTM F 146	≤2 %
Chloride content (water soluble)	Siemens AV-9-014	≤50 ppm

m- und y-Factors

Thickness	m	y (PS), y (Mpa)
1,0	2,8	4930, 34
1,5	-	-
2,0	2,8	5220, 36
3,0	2,8	5665, 39

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values.

We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.

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		
P _I [bar]	Dicke H _D [mm]	σ _{VU} [N/mm ²]	σ _{VO} [N/mm ²]	m	σ _{BO} [N/mm ²]					b _D : h _D	k ₀ x K _D [N/mm ²]	k ₁ [mm]
					20°C	100°C	200°C	300°C	400C			
10	1,0	29	385	1,3	385	75	50	50	20	10 : 1	29 x b _D	1,3 x b _D
	1,5	32	260	1,3	260	65	45	45	20	6.7 : 1	32 x b _D	1,3 x b _D
	2,0	34	215	1,3	215	60	40	40	15	5 : 1	34 x b _D	1,3 x b _D
	3,0	41	140	1,3	140	55	35	35	10	3.3 : 1	41 x b _D	1,3 x b _D
16	1,0	36	385	1,3	385	75	50	50	20	10 : 1	36 x b _D	1,3 x b _D
	1,5	39	260	1,3	260	65	45	45	20	6.7 : 1	39 x b _D	1,3 x b _D
	2,0	42	215	1,3	215	60	40	40	15	5 : 1	42 x b _D	1,3 x b _D
	3,0	50	140	1,3	140	55	35	35	10	3.3 : 1	50 x b _D	1,3 x b _D
25	1,0	42	385	1,3	385	75	50	50	20	10 : 1	42 x b _D	1,3 x b _D
	1,5	46	260	1,3	260	65	45	45	20	6.7 : 1	46 x b _D	1,3 x b _D
	2,0	50	215	1,3	215	60	40	40	15	5 : 1	50 x b _D	1,3 x b _D
	3,0	62	140	1,3	140	55	35	35	10	3.3 : 1	62 x b _D	1,3 x b _D
40	1,0	51	385	1,3	385	75	50	50	20	10 : 1	51 x b _D	1,3 x b _D
	1,5	56	260	1,3	260	65	45	45	20	6.7 : 1	56 x b _D	1,3 x b _D
	2,0	61	215	1,3	215	60	40	40	15	5 : 1	61 x b _D	1,3 x b _D
	3,0	77	140	1,3	140	55	35	35	10	3.3 : 1	77 x b _D	1,3 x b _D

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