

HeBoSint[®]

Boron Nitride Sintered Components

HeBoSint [®] Grade	D	P	C	O	O	A
composition	BN	BN	BN	BN + ZrO ₂	BN + SiO ₂	BN + AlN
binder	n/a	n/a	Ca-borate	boron oxide	boron oxide	boron oxide
density [g/cm ³]	2.0	1.9	2.0	2.9	2.2	2.5
specific resistivity (room temp.) [Ω cm]	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹²	> 10 ¹⁵	> 10 ¹⁵
max. service temperature						
• in air [°C]	900	900	900	1000	900	900
• in inert atmosphere [°C]	~ 2500	~ 2400	~ 2400	~ 1800	~ 1600	~ 1800
directionality	isotropic	anisotropic	anisotropic	anisotropic	anisotropic	anisotropic
flexural strength (4 point) [N/mm ²]	20	20	80	120	65	125
compressive strength [N/mm ²]	40	36	96	180	98	186
thermal conductivity at room temp. [W/mK]	26	20	38	42	29	40
coeff. of thermal expansion (room temp. to 1000 °C) [10 ⁻⁶ /K]	0.4	2.0	1.0	1.5	0.15	5.5

Technical data only for orientation purposes without guarantee of properties.
Properties may vary due to variations in geometry, surface, and quality of different batches.

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