

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 ¹²		> 10 ¹²		> 10 ¹²		> 10 ¹²		> 10 ¹⁵		> 10 ¹⁵	
max. service temperature												
• in air [°C]	~ 900		~ 900		~ 900		~ 900		~ 900		~ 900	
• in inert atmosphere [°C]	> 2200		~ 2200		~ 2200		~ 1800		~ 1600		~ 1800	
properties ↓ perpendicular to pressing dir. → in line with pressing direction			↓	→	↓	→	↓	→	↓	→	↓	→
flexural strength (4 point) [N/mm ²]	20		18	15	52	41	100	60	34	64	78	125
thermal conductivity at room temperature [W/mK]	50		28	19	55	38	35	25	11	29	40	50
coeff. of thermal expansion (RT to 1000 °C) [10 ⁻⁶ /K]	4.4		1.0	2.0	3.0	4.0	5.0	7.0	2.5	3.0	5.4	5.6

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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