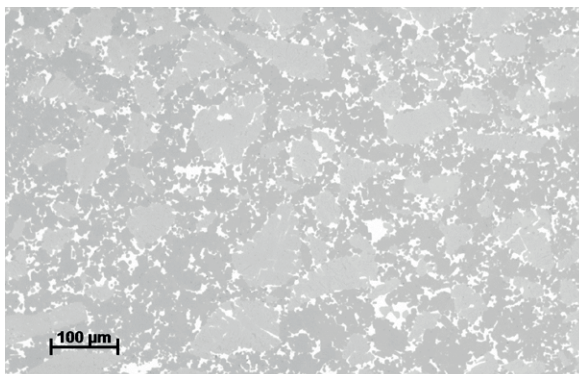


Technical Ceramics

Material Data Sheet

CarSIK-B4C

CarSIK-B4C			
Density	[g/cm ³]	2.85	
Apparent Porosity	[Vol.%]	0	
Flexural Strength (4 Point)	[MPa]	220	
Weibull Modulus		10	
Young's Modulus	[GPa]	350	
Vickers Hardness	[MPa]	B ₄ C	29,000
		SiC	25,000
		Si	14,000
Chemical Composition	[wt.%]	B ₄ C	30
		SiC	57
		Si	12
		impurities and free carbon	<1



◀ light grey phase: B₄C
dark grey phase: SiC
light phase: Si

The values quoted above were determined on test specimen and they cannot generally be applied for all shapes.

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