BLASCH PRECISION CERAMICS

Where your ideas take SHAPE in CERAMIC

INVINCER BY BLASCH® - REACTION BONDED SILICON CARBIDE

InVinCer by Blasch® Reaction Bonded Silicon Carbide has excellent wear, impact, and chemical resistance. The strength of this material is almost 50% greater than that of most nitride bonded silicon carbides. It can be formed into a variety of shapes, including cone and sleeve shapes, as well as more complex engineered pieces designed for equipment involved in the processing of raw materials.

Key Material Properties

Composition	86% SiC 14% Si
Apparent Porosity	< 0.1%
Modulus of Rupture	37,700 PSI (RT) 260 MPa
Erosion Resistance (ASTM C704)	1.0 cc
Bulk Density	190-195 lb/ft^3
Thermal Conductivity (BTU in/hr ft^2 °F)	312
Coefficient of Reversible Thermal Expansion (in/in °F)	$3.33x10^6$

Benefits of InVinCer by Blasch:

- Pinnacle of large scale abrasion-resistant ceramic technology.
- Designed for use in applications for large shapes where refractory grades of silicon carbide exhibit abrasive wear or damage from impact of large particles.
- Resistant to direct impingement of light particles as well as impact and sliding abrasion of heavy solids containing slurries.

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