

DuraShock

Lightweight Ceramic - Ceramic Composites

Tough and hard ceramic composites for application where moderate mechanical shocks are present

- Boron Carbide based ceramic composite – high hardness and improved toughness for applications where a high hardness and impact resistance is required
- Improved impact behaviour
- Lightweight for applications where Silicon Carbide is too heavy
- Consolidation by pressureless sintering – economical process with ability to form complex shapes
- Further densification possible without changing the material characteristics

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Density = 2.75 g/cm³

Hardness HV_{0.5}=28 GPa

Toughness K_{IC}= 4 MPa/m²

*K_{IC} toughness as measured by the indentation method

