

# 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

### DuraShock

Density = 2.75 g/cm<sup>3</sup>

Hardness HV<sub>0.5</sub>=28 GPa

Toughness K<sub>IC</sub>= 4 MPa/m<sup>2</sup>

\*K<sub>IC</sub> toughness as measured by the indentation method

