

# DuraWear

## Lightweight Ceramic - Ceramic Composites

### Hard ceramic composites for abrasive wear protection

- Boron Carbide based composite ceramics – high intrinsic hardness for applications where abrasive wear is an issue
- High Boron Carbide content for increased hardness and wear protection
- Lightweight for applications where reduced weight is important
- Consolidation by pressureless sintering – economical process with ability to form complex shapes
- Further densification possible without changing the material characteristics

#### DuraWear

Density = 2.62g/cm<sup>3</sup>

Hardness HV<sub>0.5</sub>=31GPa

Toughness K<sub>IC</sub>=3.4 MPa/m<sup>2</sup>

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

