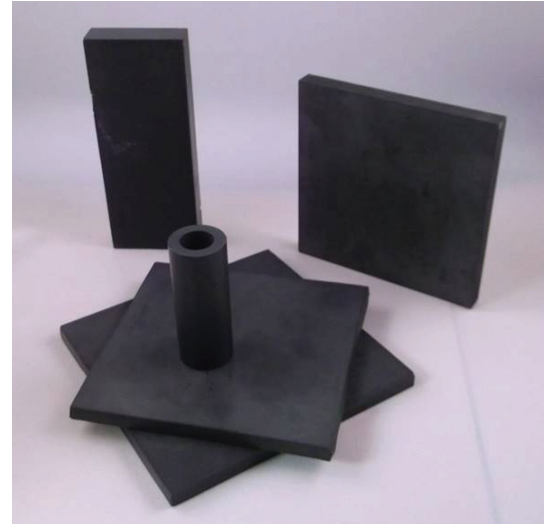


Superduride Standard & Superduride Plus

Lightweight Ceramic - Ceramic Composites

Sinterable ultrahard ceramic composite

- Boron Carbide based ceramic composites – ultra hard and lightweight for applications where weight and performance are critical
- High Boron Carbide content for exceptional hardness
- Toughening by crack deflection significantly improves the toughness
- Consolidation by pressureless sintering – economical process with ability to form complex shapes
- High electrical conductivity makes the material suitable for Electric Discharge Machining – very complex shapes possible



Superduride Standard

Density= 2.49 g/cm³
 Hardness HV_{0.5}=35 GPa
 Toughness K_{IC}=3.5 MPa/m²
 *K_{IC} toughness as measured by the Indentation method

Superduride Plus

Density= 2.53 g/cm³
 Hardness HV_{0.5}=39 GPa
 Toughness K_{IC}= 4 MPa/m²
 *K_{IC} toughness as measured by the Indentation method

