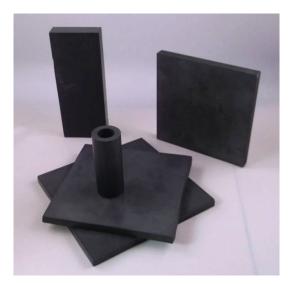


Superduride Standard & **Superduride Plus**

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

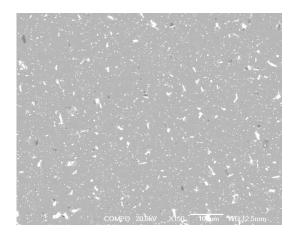
Density= 2.49 g/cm³ Hardness HV $_{0.5}$ =35 GPa Toughness K_{Ic}=3.5 MPa/m²

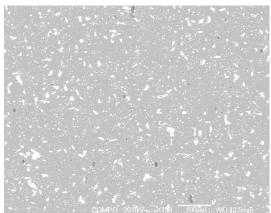
 ${}^{\star}K_{IC}$ toughness as measured by the Indentation method

Superduride Plus

 $\begin{aligned} & Density = 2.53 \ g/cm^3 \\ & Hardness \ HV_{0.5} = & 39 \ GPa \\ & Toughness \ K_{Ic} = \ 4 \ MPa/m^2 \end{aligned}$









PRECISION CERAMICS