

## OXYTRON™ - OXIDE BONDED SILICON CARBIDE

OXYTRON™ - Oxide Bonded Silicon Carbide is designed for exceptional wear and corrosion resistance and can be formed into very intricate and precise shapes with the Blasch process. It has desirable refractory and chemical properties, exhibiting exceptional oxidation and thermal shock resistance.

### Key Material Properties

Composition	67% SiC 30% Al <sub>2</sub> O <sub>3</sub> 3.7% SiO <sub>2</sub>
Apparent Porosity	14%
Modulus of Rupture	8,000 PSI (2000F) 55 MPa
Bulk Density	190-195 lb/ft <sup>3</sup>
Thermal Conductivity (BTU in/hr ft <sup>2</sup> °F)	64
Coefficient of Reversible Thermal Expansion (in/in °F)	3.1x10 <sup>-6</sup>

### Benefits of OXYTRON:

- Best first step for replacing metallic components.
- One-third the weight and a smoother surface than cast iron.
- Dimensional tolerance and superior thermal shock and oxidation resistance
- Low cost/ high volume.

