

■ **Introduction:**

Silicon carbide ceramic wear-resistant plate is a type of silicon carbide ceramic material that is formed through a chemical reaction between silicon and carbon. RBSIC ceramic lining tile block brick is a type of wear-resistant ceramic material that is used to line or cover the surfaces of equipment or machinery that are subjected to high wear and corrosion.

■ **Technical data sheet of RBSIC ceramic lining tile:**

| Item                             | Unit              | Data           |
|----------------------------------|-------------------|----------------|
| Temperature of application       | °C                | 1380°C         |
| Density                          | G/cm <sup>3</sup> | >3.02          |
| Open porosity                    | %                 | <0.1           |
| Bending strength                 | Mpa               | 250 (20°C)     |
|                                  | MPa               | 280 (1200°C )  |
| Modulus of elasticity            | GPa               | 330 (20°C)     |
|                                  | GPa               | 300 ( 1200°C ) |
| Thermal conductivity             | W/m.k             | 45 (1200°C )   |
| Coefficient of thermal expansion | K-1 ×10-6         | 4.5            |
| Rigidity                         | /                 | 13             |
| Acid-proof alkaline              | /                 | excellent      |

■ **Advantages:**

1. Reaction bonded silicon carbide Ceramic plate has excellent properties such as high wear resistance, corrosion resistance.
- 2.RBSIC Silicon carbide ceramic lining tile block brick have thermal shock resistance, and high strength.
- 3.Silicon carbide ceramic lining tile is widely used in industries such as mining, power generation, cement, and steel, where equipment and machinery are subjected to high wear and corrosion.

