SCProbond™ Refractory Solutions

Silicon Carbide Applications in Industrial Process Heating

Refractory applications are among some of the most demanding industrial environments. The components used in these applications require high service temperatures as well as excellent thermal shock resistance. Silicon carbide is a popular selection on the limited list of materials suitable for both the conditions and intended use in refractory applications. SCProbond™ Silicon Carbide is an engineered ceramic material that exhibits high performance characteristics including: maximum service temperature of 1525°C, high hardness approaching that of diamond, high strength (gains strength at temperature), and excellent chemical, thermal shock, and wear resistance. Our near-net shape process allows us to accommodate the customized needs often associated with these refractory environments due to varying configurations and spatial limitations while increasing kiln throughput and component lifetimes.

At SCP, our team strives to create efficient, cost-effective, monolithic SiC solutions customized with the spatial efficiency and thermal resistance properties required of the following typical industrial process heating components:

- Crucibles
- Saggers
- Setters
- Pusher Plates
- Burners
- Bricks
- Tiles
- Support Bars / Posts / Beams
- Immersion Heater Tubes
- Heating Element Holders
- Thermocouple Protection Tubes
- Reactor Sleeves
- Sight Tubes
- Muffles

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