

Boron Nitride (BN)

Features

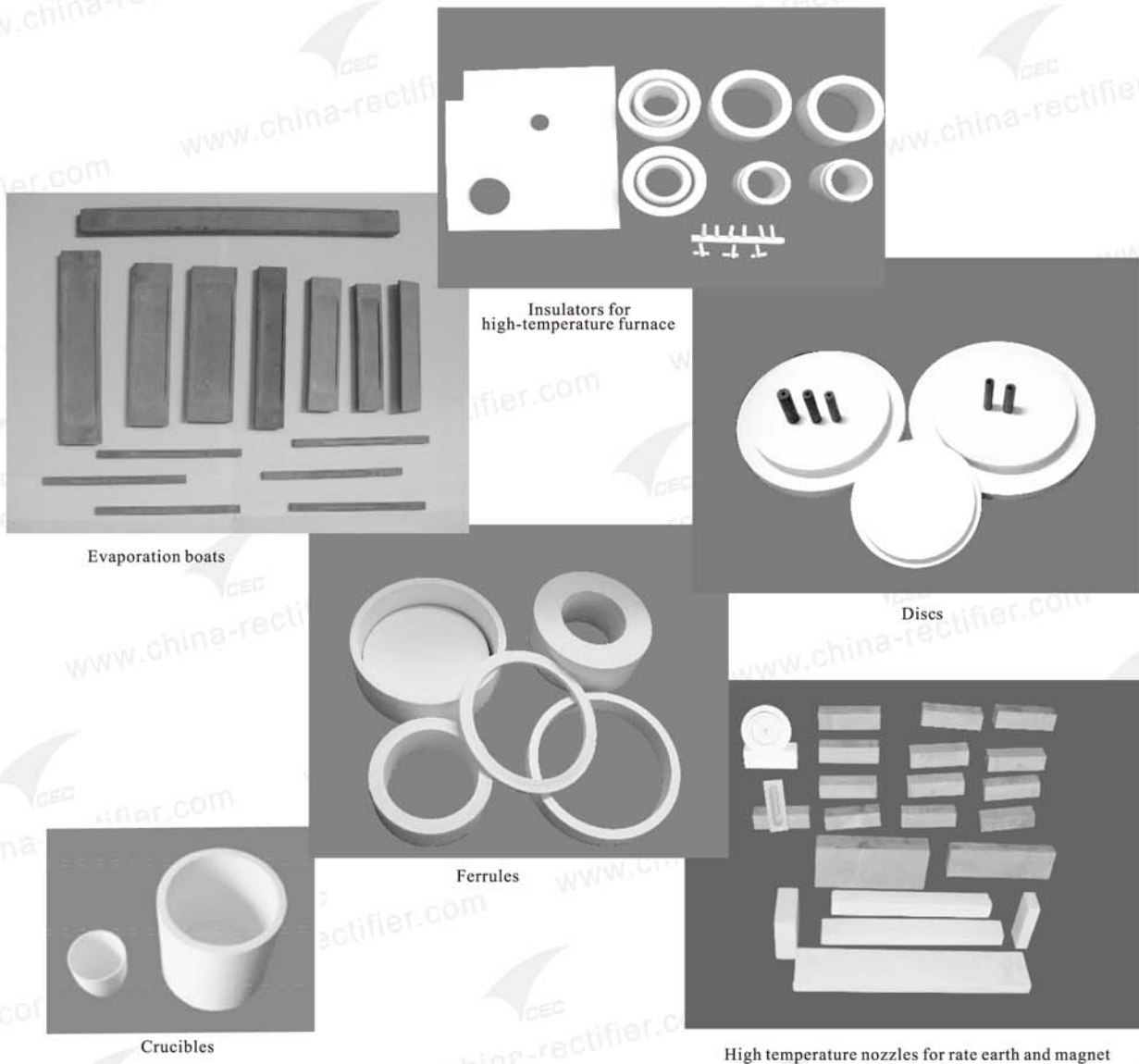
- High Thermal Conductance
- Low Thermal Expansion Coefficient
- Strong Wear and Corrosion Resistance
- High Temperature Proof
- Excellent Electrical Properties
- Low Friction Coefficient
- Ease Machining

Applications

- Insulators for High-temperature Furnace
- High Temperature Nozzles
- Plates
- Evaporation Boat for Coating
- Crucibles

Characteristics of Material

Item	Unit	Value
Bulk Density	g/cm ³	1.9~2.0
Mohs Hardness		1
Thermal Expansion Coefficient	10 ⁻⁶ /°C	2.95~3 (at 0~1400°C)
Bending Strength	MPa	44
Dielectric Constant (at 1MHz)		4
Dielectric Loss Angle (at 1 MHz)	× 10 ⁻⁴	2~6
Thermal Conductivity	W/m.K	20~60
Breakdown Voltage	kV/mm	20~30
Volume Resistivity	Ω cm	> 10 ¹⁴



Evaporation boats

Insulators for high-temperature furnace

Discs

Ferrules

Crucibles

High temperature nozzles for rare earth and magnet