

Recrystallized silicon carbide ceramic crucible

■ Introduction:

Recrystallized silicon carbide ceramic crucible is widely used in laboratories, chemical industry, metallurgy industry, electronics industry and other fields, and can be used in high-temperature melting, chemical analysis, material processing and other fields. Its main advantages include high temperature stability, corrosion resistance, wear resistance, good thermal shock stability.

■ Technical data sheet:

Item	Unit	Data
Contents: SIC		≧ 99
Si ₃ N ₄	Vol%	0
Si		0
Bulk Density 20℃	g/cm ³	2.65-2.75
Apparent porosity	%	15-18
Modulus of rupture(20℃)	Mpa	80-100
Modulus of rupture(1200℃)	MPa	90-110
Modulus of rupture(1350℃)	MPa	90-120
Modulus of crushing(20℃)	MPa	300
Thermal conductivity(1200℃)	W.m ⁻¹ .k ⁻¹	36.6
Thermal expansion(1200℃)	a×10 ⁻⁶ /℃	4.69
Thermal shock resistance(1200℃)		Good
Max. Working temperature	℃	1620 (oxide)

■ Advantages:

1. Recrystallized silicon carbide crucible can withstand high temperature, usually up to 1600℃.
2. RSIC ceramic crucible has excellent acid and alkali corrosion resistance and can withstand the corrosion of various chemical reagents.
3. Silicon carbide crucible has good thermal conductivity and can transfer heat quickly, which makes it have high stability at high temperature.
4. SIC crucible can be customized according to customer requirements, can produce a variety of shapes and sizes of ceramic crucible.

