

Refractory NSIC crucible sagger for melting

■ Introduction:

Refractory NSIC nitride boned silicon carbide crucible sagger for melting is usually used for high temperature applications, such as the melting and casting of metals, alloys and other materials. The refractory silicon carbide crucible are made of a combination of silicon carbide and silicon nitride and have excellent impact resistance, high thermal conductivity, and chemical resistance.

■ Technical data sheet:

Item	Unit	Data
Contents: SIC		≥75
Si ₃ N ₄	Vol%	≥23
Si		0
Bulk Density 20 C	g/cm ⁻³	2.75-2.85
Apparent porosity	%	13- 15
Modulus of rupture(20 C)	Mpa	160- 180
Modulus of rupture(1200 C)	MPa	170- 180
Modulus of rupture(1350 C)	MPa	170- 190
Modulus of crushing(20 C)	MPa	580
Thermal conductivity(1200 C)	W.m ⁻¹ .k ⁻¹	19.6
Thermal expansion(1200 C)	a×10 ⁻⁶ /C	4.70
Thermal shock resistance(1200 C)		Excellent
Max. Working temperature	C	1580

■ Advantages:

1. NSIC sagger for powder sintering has extremely high temperature resistance.
2. NSIC crucible has good acid and alkali corrosion resistance, can be used in acid, alkali and other corrosive environment for a long time.
3. Refractory silicon carbide crucible has high strength and hardness, can withstand large mechanical load.
4. NSIC sagger for powder sintering has high chemical stability, not easy to chemical reaction and oxidation, can be used stably for a long time.
5. NSIC Silicon carbide crucible kiln for melting is non-toxic and harmless, will not cause pollution to the environment, and meets the requirements of environmental protection.



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