■ Introduction of RBSIC furnace inner tube thermal ceramic Flame tube：

RBSIC (Reaction Bonded Silicon Carbide) is a type of advanced ceramic material that is used in high-temperature and high-wear applications. It is known for its excellent thermal shock resistance, high strength, and corrosion resistance. A furnace inner tube made of RBSIC is used in high-temperature furnaces to contain and direct the flow of gases and materials being processed.

■ Technical data sheet of RBSIC furnace inner tube thermal ceramic Flame tube:

Item	Unit	Data
Temperature of application	℃	1380℃
Density	G/cm3	＞3.02
Open porosity	%	＜0.1
Bending strength	Mpa	250 (20℃)
	MPa	280 (1200℃)
Modulus of elasticity	GPa	330 (20℃)
	GPa	300 (1200℃)
Thermal conductivity	W/m.k	45 (1200℃)
Coefficient of thermal expansion	K-1 ×10-6	4.5
Rigidity	/	13
Acid-proof alkaline	/	excellent

■ Advantages of RBSIC furnace inner tube thermal ceramic Flame tube :

(1) The thermal ceramic flame tube is a component of a combustion system that is designed to promote efficient and clean combustion. It is typically made of a high-temperature ceramic material that can withstand the high temperatures and corrosive environments associated with combustion.
(2) The RBSIC flame tube is designed to promote turbulent mixing of the fuel and air, which leads to better combustion efficiency and lower emissions.
(3) RBSIC ceramic thermocouple protection Radiation tube can be used to create a high-temperature combustion system that is both durable and efficient.
(4) Silicon carbide protection tube Radiation tube can withstand the high temperatures and corrosive environment inside the furnace, while the thermal ceramic flame tube can promote efficient and clean combustion. This combination is commonly used in industrial furnaces for heat treatment, ceramic sintering, and other high-temperature processes.

Zibo DuraTec Technical Ceramic Applying Co.,Ltd
Address: E-1701, Torch Square, High-Tech Zone, Zibo, Shandong,China.
T/F: 0086-533-3153897 Web: www.duratec-refractory.com Email: info@duratec-ceramic.com

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Address: E-1701, Torch Square, High-Tech Zone, Zibo, Shandong,China.
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