

## sintered silicon carbide ceramic heat exchange tube

### ■ Introduction:

SSIC Sintered silicon carbide ceramic heat exchange tube is a ceramic tube for high temperature, high pressure, corrosion resistant chemical industry equipment. Its main characteristics are very high corrosion resistance, high temperature stability, high mechanical strength and high heat conductivity. SSIC heat exchange tube can withstand the high temperature of up to 2000°C, while has good wear resistance and impact resistance, suitable for all kinds of acid, alkali, salt and other media heat and mass transfer.

### ■ Technical data sheet:

Item	Unit	Data
Density	G/cm <sup>3</sup>	>3.14
Open porosity	%	<0.1
Bending strength	MPa	400-500
Viker Hardness	Kg/mm <sup>2</sup>	2800
Rockwell Hardness	HRA	92
Acid-proof (98% H <sub>2</sub> SO <sub>4</sub> at 100C)	Mg/cm <sup>2</sup> .Y	0.98
Grain Size	nm	<10
Fracture toughness	Mpa	4-5
Silicon Carbide Content	%	>99

### ■ Advantages:

1. Silicon carbide heat exchange pipe has good thermal conductivity, which can quickly conduct heat and improve heat exchange efficiency.
2. Sintered silicon carbide products has excellent acid, alkali, high temperature and corrosion resistance. Sintered silicon carbide products can be used in a variety of harsh environments and is not susceptible to chemical corrosion.
3. Pressureless sintered silicon carbide has a modular design that makes it easy to install and can be adjusted and replaced as needed

