

■ **Introduction:**

Reaction bonded silicon carbide ceramic cooling air pipe have the advantages of high high-temperature strength, high pressure resistance, and low high-temperature creep.

silicon carbide kiln air pipe are used in the temperature colling zone of roller kilns, with good resistance to rapid cooling and heating, long-term use without deformatio.The service life of RBSIC cooling air hose tube is 5-10 times that of refractory materials such as stainless steel pipes or alumina.

■ **Technical data sheet of silicon carbide cooling pipe:**

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:**

(1)silicon carbide kiln air pipe have excellent high-temperature performance: high high-temperature strength, ability to withstand high temperatures above 1380 degrees Celsius, and low high-temperature creep.

(2)RBSIC cooling air hose tube have excellent extremely cold and hot performance, which is suitable for the use of cooling belts in roller kilns.

(3)Reaction bonded silicon carbide ceramic cooling air pipe are easy to use, easy to clean and maintain, and have a long service life. Reduced downtime losses for replacing kiln accessories.

