

■ **Introduction of RBSiC ceramic thermocouple protection Radiation tube:**

RBSiC Protection Tube Thermocouple Assemblies is an ideal material for thermocouple protection tubes due to its high temperature resistance, thermal shock resistance, and excellent chemical stability.

■ **Technical data sheet of RBSiC ceramic thermocouple protection Radiation tube:**

Item	Unit	Data
Temperature of application	°C	1380°C
Density	G/cm ³	>3.02
Open porosity	%	<0.1
Bending strength	Mpa	250 (20°C)
	MPa	280 (1200°C)
Modulus of elasticity	GPa	330 (20°C)
	GPa	300 (1200°C)
Thermal conductivity	W/m.k	45 (1200°C)
Coefficient of thermal expansion	K-1 ×10-6	4.5
Rigidity	/	13
Acid-proof alkaline	/	excellent

■ **Advantages of RBSiC ceramic thermocouple protection Radiation tube:**

(1)In particular, silicon carbide thermocouple protection tube are widely used for high-temperature applications where the thermocouple is exposed to harsh environments such as extreme heat, corrosive gases, and abrasive particles.

(2)The Silicon carbide protection tube Radiation tube protects the thermocouple from these harsh conditions while still allowing accurate temperature measurement. The tube is designed to withstand high temperatures up to 1650° C and is resistant to oxidation, acid, and alkali corrosion.

(3)RBSiC ceramic thermocouple protection radiation tubes are a reliable and cost-effective solution for high-temperature applications where accurate temperature measurement is essential.



