Products

Dry point heating silicon nitride heating elements

Model	Voltage	Power
191x17x4mm	220V	900W
138x17x4mm	220V	650W
128x17x4mm	220V	600W
98x17x4mm	220V	400W
95x17x4mm	110V	400W

Room temperature flexural strength	⩾900Mpa	Room temperature fracture toughness	6.0-8.0 Mpa.$m^{1/2}$
Bulk density	3.20-3.4g/cm^3	Room temperature volume resistivity	10^{14} Ω.cm
Relative dielectric constant at room temperature	6-7	Thermal conductivity	23-25W/ (m-k)
Coefficient of thermal expansion	3.1×10^{-6}/℃	Hardness	HRA92-94

Hardness (HRA)	Fracture toughness (Mpa.m1/2)	Flexural strength (Mpa)
92.0~94.0	6.0~8.0	⩾900

Application areas for dry point heating silicon nitride ceramic heating elements:

◎ Ceramic welding heads
◎ Photovoltaic panel cutting blades
◎ Laser automation equipment
◎ Automatic welding machines
◎ Solar cell cutting
◎ Industrial equipment heating
◎ Suitable for all kinds of high temperature ignition devices.

Precautions for use: The working environment is strictly forbidden to be cold and hot, and water or other liquids are strictly forbidden to splash onto the surface of the heating body when in a high temperature state.

Hot pressed silicon nitride ceramic electric heating elements performance, characteristics:

This product is made of high performance silicon nitride ceramic as the substrate, high temperature mechanical strength, strong resistance to thermal shock, acid and alkali corrosion resistance, both excellent insulating properties, and good
The thermal conductivity, combined with our proprietary formulation and hot press manufacturing technology, gives this product the following excellent properties and characteristics

◎ Electrical strength of insulation: 2500V, 50Hz at room temperature, no breakdown for 1 minute.
◎ High temperature resistance, dry point up to 1000°C
◎ High surface load, dry point heating load up to 25w/cm2
◎ Small size
◎ Low thermal inertia and fast temperature rise.
◎ Long life span
◎ Acid and alkali resistant
◎ Advantages such as low thermal inertia, fast temperature rise and long life.