Products

DK Series

Dry point heating silicon nitride heating elements

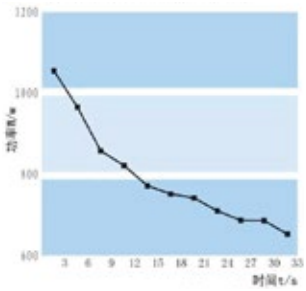
Model	Voltage	Power
191x17x4mm	220V	900W
138x17x4mm	220V	650W
128x17x4mm	220V	600W
98x17x4mm	220V	400W
95x17x4mm	110V	400W

Application areas for dry point heating silicon nitride ceramic heating elements
◎ Mould heaters. ◎ Packaging machinery. ◎ Tobacco equipment.
◎ Industrial equipment heating. ◎ Burner ignition system. ◎ Mould heaters.
◎ Industrial equipment heating. ◎ Petrochemical industry.
◎ Applicable to 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.

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

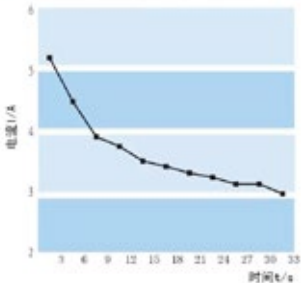
Hardness (HRA)	Fracture toughness (Mpa.m1/2)	Flexural strength (Mpa)
92.0~94.0	6.0~8.0	⩾900

Power versus time graph



DKO1YTO5A220V-650 power-time curve

Current versus time graph



DKOIYTO5A220V-650W current-time curve

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

This product is made of high performance silicon nitride ceramics, with high mechanical strength at high temperature, high thermal shock resistance, acid and alkali corrosion resistance, excellent insulation and good thermal conductivity, and our proprietary formula and hot pressing manufacturing technology, so that this product has the following excellent performance and characteristics:
◎ Electrical strength of insulation: 2500V.50Hz at room temperature, no breakdown for 1 minute;
◎ High temperature resistance, dry point up to 1200°C
◎ High surface load, dry point heating load up to 25w/cm20
◎ Small size
◎ Low thermal inertia, fast heat-up.
◎ Long life span
◎ Acid and alkali resistant
◎ Low thermal inertia, fast temperature rise, long life and other advantages;