Thermal Solutions of Texas

High Temp Firerod Heaters

CARTRIDGE HEATERS

Swaged Cartridge Heater Ideal for High Temperature Applications

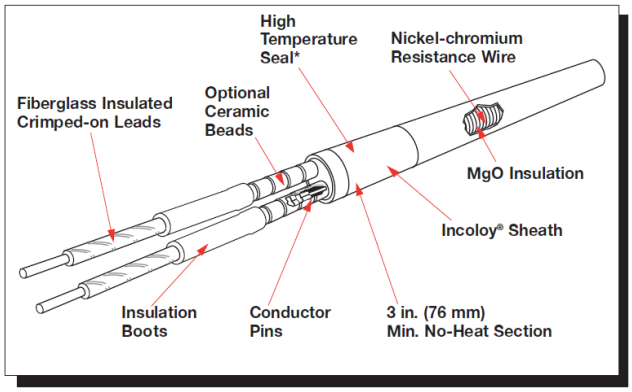
The high temperature (HT) FIREROD® heater is specially designed for high temperature platen applications up to 1600°F (871°C). The HT FIREROD heater utilizes the same industry leading design principals used on all of FIREROD heaters. Taking the cartridge heater one step further enables the HT FIREROD to withstand application temperatures up to 400°F (204°C) higher than standard cartridge heaters.

The HT FIREROD is designed specifically for use in high temperature applications:

- Internal seal construction is virtually airtight to reduce the effects of resistance wire oxidation
- The high temperature sheath is treated to improve its emissivity for better heat transfer

Performance Capabilities

- Platen temperatures to 1600°F (871°C)
- Maximum watt density to 100 W/in² (15.5 W/cm²)
- Maximum voltage 277VAC to ground
- Length tolerance: +0, -4 percent standard diameters; +0, -8 percent for special diameter



* First 3 in. (76 mm) at lead end must be kept below 1000°F (538°C)

Features and Benefits

- **High temperature seal** reduces exposure to the atmosphere which minimizes oxidation of the winding wires and extends the life of the element
  Note: First 3 in. (76 mm) must be outside the platen in free air and less than 1000°F (538°C).
- **Incoloy® sheath** resists oxidation and corrosion enabling more efficient heat transfer
- **High emissivity sheath** provides better heat transfer and longer life

Typical Applications

- Thermo plastic
- Super plastic forming of titanium aircraft parts
- Diffusion bonding to laminate and shape titanium

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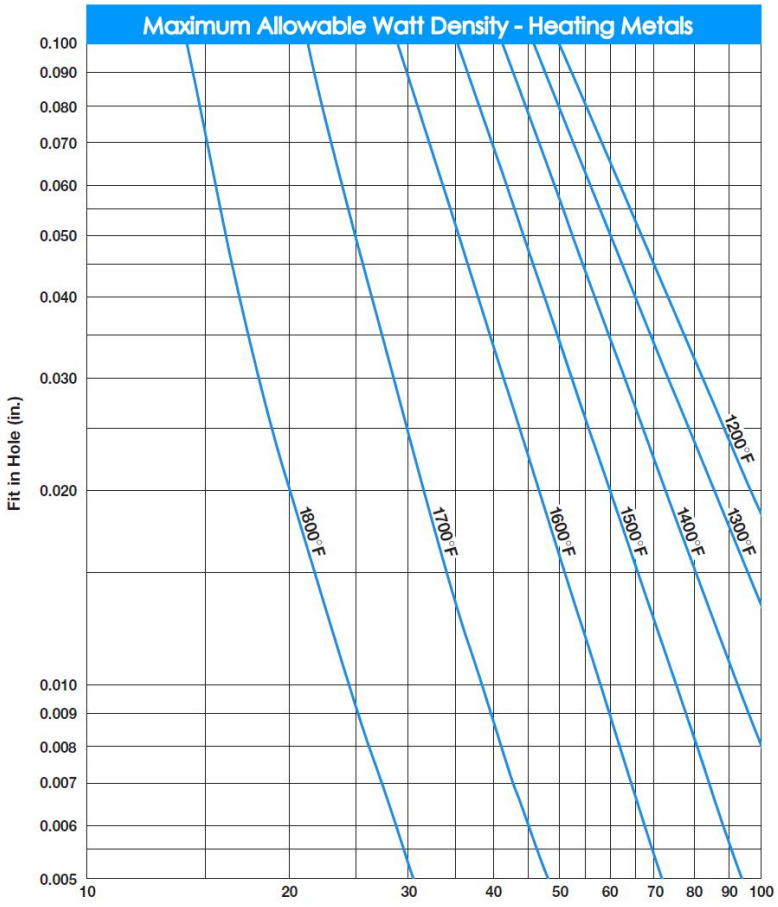
Options and Technical Data

- Thermocouples
- Independently controllable heat zones
- Distributed wattage
- Flanges
- Post terminals
- Conduit NEMA boxes
- Bent FIREROD

Reference the recommended Maximum Watt Density graph to determine if the HT FIREROD heater fits the application.



Made-to-Order Availability

Nominal Diameter (inches)	Actual Diameter (inches)	Max Amperes
½	0.496 ± 0.004	10
⅝	0.580 ± 0.004 0.621 ± 0.004	23 23
¾	0.710 ± 0.004 0.746 ± 0.004	46 46
1	0.960 ± 0.004 0.996 ± 0.006	46 46

Contact Thermal Solutions of Texas for special diameter requests.

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