

Swaged Cartridge Heater Ideal for High Temperature Applications

The Watlow® 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 Watlow's FIREROD products. 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:

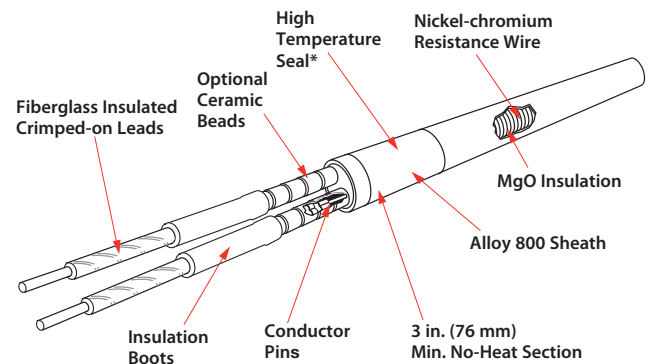
- Internal seal construction is virtually airtight to reduce the effects of resistance wire oxidation
- The high temperature sheath is treated to improve its emissivity for better heat transfer

Performance Capabilities

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

Typical Applications

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



* First 2 in. (51 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 2 in. (51 mm) must be outside the platen in free air and less than 1000°F (538°C).

Alloy 800 sheath

- Transfers heat more efficiently

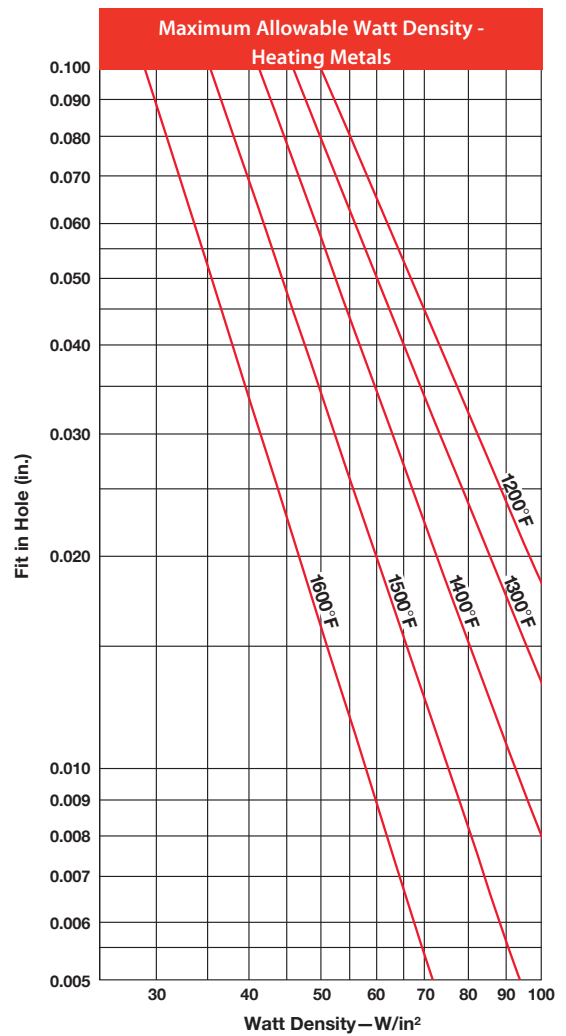
High emissivity sheath

- Provides better heat transfer and longer life

Options and Technical Data

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

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



Powered by Possibility



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