

# Strip/Clamp-On Heaters



## Mineral Insulated (MI) Strip Heaters

The MI strip heater is a thin, responsive heater that uses the most advanced heater construction techniques. A nickel-chromium element wire is embedded in Watlow's exclusive mineral insulation material, which has a much higher thermal conductivity than the mica and hard ceramic insulators used in conventional heaters. This thin layer of insulation brings the element wire closer to the heater sheath. The result is heat flows easily from the element wire to the sheath allowing the wire to run cooler than conventional heaters and increasing heater life.

### Performance Capabilities

- Sheath temperatures up to 1400°F (760°C)
- Watt densities up to 140 W/in<sup>2</sup> (21.7 W/cm<sup>2</sup>)
- Maximum voltage up to 480VAC
- UL® component recognition for most 240VAC or less designs (UL® File #E52951)

### Features and Benefits

#### Higher watt densities than any other strip heater

- Provides faster heat up

#### Exclusive mineral insulation

- Combines dielectric strength and superior thermal conductivity
- Transfers heat rapidly to the sheath

#### 304 stainless steel sheath

- Maintains the high compaction of mineral insulation
- Produces a rigid heater

### Typical Applications

- Solder pots
- Zinc die-casting equipment
- Die and mold heating
- High-temperature resins
- Tank and platen heating
- Ovens
- Packaging equipment
- Semiconductor chamber heating

