



## Mineral Insulated (MI) Band Heaters



**The Mineral Insulated Band Heater features stainless steel sheath for maximum durability.**

### **MI BAND HEATERS**

MI Band products are perfect for applications needing reliable high process temperatures. The MI Band Heater has a high watt density of 80W/in<sup>2</sup> Max. It is built with very high-quality materials and based on the application can maintain temperatures as high as 1400°F (760°C).

MI Bands reduce costs and increase performance while providing outstanding durability and long band life.

### **FEATURES AND BENEFITS**

- High temperatures up to 1400°F (760°C)
- 480V MAX (AC or DC)
- 80 W/in<sup>2</sup> (12.4 W/cm<sup>2</sup>) Maximum Watt Density
- Stainless steel band
- Rugged lead protection optional
- Quick delivery of custom orders in quantities as low as 1 piece
- Expedited delivery options available
- Made in the USA

### **APPLICATIONS**

The construction, coupled with the high watt density capabilities, make the MI Band the obvious choice for the most demanding band heater applications, including plastics, chemical, fuel cell, scientific, laboratory, and testing.

# Mineral Insulated (MI) Band Heaters

Mineral Insulated Bands can be configured to each specific application. See some of the standard and optional features available below.

## PRODUCT OFFERINGS

### Termination options:

- Leads Next to the Gap on Each Side with Cap & Tube
- Lead Next to the Gap on One Side with Cap & Tube
- Leads Opposite the Gap with Cap & Tube
- Leads on Thickness on Each Side of the Gap
- Screw Terminals on Each Side of the Gap - Along length or width
- Screw Terminals on One Side of the Gap - Along length or width
- Screw Terminals Opposite the Gap, Along the Width
- Screw Terminals Opposite the Gap, Along the Length

### Leadwire Protection Options:

- Stainless Steel Armor - Square lock or convoluted
- Stainless Steel Braid - or fiberglass sleeving

### Screw Terminal Options:

- Ground Stud or Ceramic Terminal Covers

## SPECIFICATIONS

Max Operating Temp	1400°F (760°C)
Holes	Yes
Cutouts	Yes
Durability	Good

**Maximum Temperature:** Standard Sheath: 1400°F (760°C)

Protherm does not recommend leads for temperatures above 900° max due to wire temperature rating.

**Power:** 80 Watts/in<sup>2</sup> max (12.4 Watts/cm<sup>2</sup>)

**Wattage Tolerance:** +5% / -10%

**Available Voltage:** 480V max (AC or DC)

### Voltage Options:

Dual Voltage - 120V/240V or 240V/480V (AC or DC)

Three Phase - Wye or Delta

**Resistance Tolerance:** +10% / -5%

**Wattage Tolerance:** +5% / -10%

### Inside Diameter Range:

3/4" ± 1/32" to 30" ± 1/16" (19.1mm to 762mm)

**Width Range:** 3/4" ± 1/16" to 6" ± 1/16" (19.1mm to 152mm)

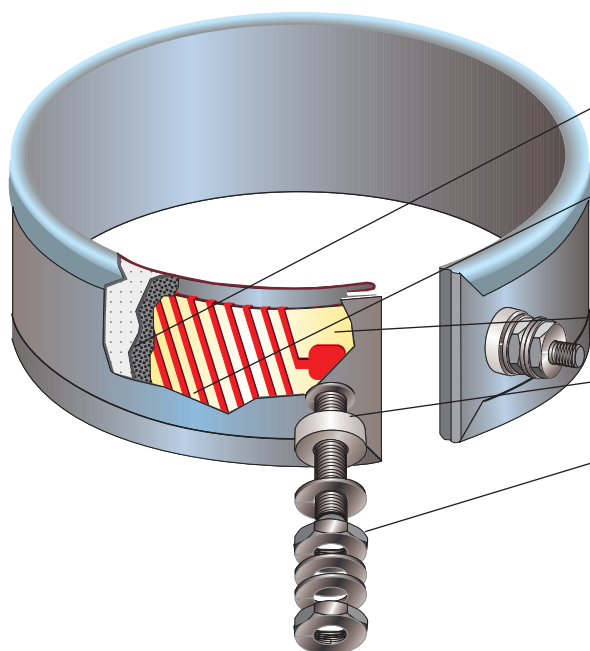
### Holes, Slots, and Cutouts:

3 max (dimension tolerance of +1/16" / -0")

Gap Sizes					
Heater ID	≤ 1.5"	> 1.5" to 2.5	> 2.5" to 5	> 5" to 12	>12"
1-Piece Heater	3/16"	1/4"	5/16"	3/8"	1/2"
2-Piece Heater	1/8"	3/16"	1/4"	5/15"	7/16"

\* Custom gap sizes available upon request

Consult factory for other custom options.



## FEATURES

**Mineral Insulation:** Provides excellent insulating and heat transfer properties.

### Precision Engineered Wound Resistive Element:

Tutco's heating element achieves the lowest internal temperatures possible to maximize heater life and maintain consistent temperatures.

### High-temperature insulation

### Insulating Ceramic

### Lead-wire and Screw Termination Variations:

In addition to screw terminations, several lead wire variations are available.