

FreezeSafe™ Hazardous Location Heated

FreezeSafe™ Classified Location Flexible Heated Mats for Low Temp Applications

Flexible Hazardous Location MPR Heated Mats are custom designed to provide Spot Heating and are Simple to Install

Watlow Polymer Technologies' FreezeSafe™ Hazardous Location ThermoPlastic Elastomer (TPE) heated mats are custom designed for your application in sizes or shapes up to 22" x 34" (558.8 mm x 863.6 mm).

Based on its patented Thermopolymer™ technology Watlow has embedded a safe, low watt density, heating element into a thermoplastic elastomer mat.

FreezeSafe heated mats are designed for use in classified locations. (Class 1, Div. II, Group A, B, C, D – Approval is Pending) Class 1, Div. II are locations where explosive vapor conditions could exist in the event of abnormal operation, an accident or component failure. All the flammable gas and liquid groups (such as acetylene, hydrogen, ethylene, and gasoline/propane) are included. Refer to Articles 500 through 505 of the National Electric Code for more information on the use of electrical devices in classified locations.

The hazardous location heated mat can be used in a variety of ways. These flexible panels can provide spot supplemental heat-tracing while simplifying installation and maintenance. Nearly any gently curved 3-D shape can be wrapped with a Watlow Polymer flexible heated mat. You can use several to fit over the entire surface.

Features and Benefits

Safe for use in Classified and High Humidity Areas

Thermopolymer™ heated mats are free of seams and joints, and are hermetically sealed against liquids and explosive vapors. This prevents annoying faults and damage from potentially dangerous leaks.

Toughness and Durability

Excellent resistance to UV, non-aromatic fuels, abrasion and tearing.

Reduced Maintenance Cost

Thermopolymer™ heated mat technology allows for easy removal and re-installation for valve and pipeline maintenance.

Lower Watt Density = Longer Life

Thermopolymer™ heated mats have a low, evenly distributed watt density (WSI). In general, as heater's watt density decreases, heater life increases.

Made to fit unusual shapes

A polymer heated mat is custom designed and die cut by the factory to accommodate curved or other odd shapes.

The Thermopolymer™ FreezeSafe™ Hazardous Location Flexible TPE heated mat is warranted against defects in material and workmanship for one (1) year provided the product is properly applied, used and maintained. See Watlow's Terms and Conditions for more information on this warranty.



Preliminary

Performance Capabilities

- Watt Densities from 0.1 to 1 watt per square inch can be designed in (Consult Factory for operating and application restrictions)
- Operating Voltages from 48V to 240V
- Ambient operating temperatures up to 60°F (16°C) or higher depending on application conditions.
- Maximum heater surface temperature 122°F (50°C)
- UL® 515 listing, c-UL® recognition and/or CSA approval are pending
- Tested to meet a 5VA flammability rating

Applications

- Electrical box heating (Subject to Agency Approvals)
- Liquid line, cylinder, tube and pipe freeze protection
- Petrochemical refining
- Power generation water injection
- Warming applications
- Low temperature processing

Availability

Hazardous Location heater panels are Custom Designed for your application. Consult Factory for details and pricing.



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