

A Complete Line of Low Cost Temperature Monitoring Products for Shipping in Today's Environments



This line of temperature monitoring products are designed for application directly to your product to immediately indicate if shipments have been subjected to temperatures beyond what you would expect. All of the temperature monitoring products have applications on a wide variety of products that include: computer components, blood products and pharmaceuticals, cosmetics, avionics, adhesives, plastics, chemicals, photographic supplies and food products, as well as shipments of live plants and animals.

Guaranteed to work within plus or minus 1° of the response temperature, these temperature indicators offer the highest level of accuracy available in the industry. Temperature indicators keep you in control even after your product has been shipped. In addition, the confidence in knowing that all of these temperature monitoring products are consistent, irreversible, tamper-proof and easy to read, provides a strategic value-added plus to you and your product.

Benefits of Monitoring Temperature

- Quality assurance to your customer
- Forewarning of product integrity upon delivery
- Field testing shipping environments
- Ongoing temperature monitoring programs on equipment
- Protection against warranty abuse
- Substantiating damage claims
- Adding to your ISO 9000 program
- Carrier control

Heatwatch

If you have product that is affected by high temperatures, such as foods or chemicals, Heatwatch is your monitoring solution. The Heatwatch Label changes color from clear to red once the packaging or freight is exposed to heat beyond the maximum temperature indicated on the label. Simply peel the adhesive backing to irreversibly activate the label.



Heatwatch Specifications:

Size:	1.5" x 1.5"
Temperature Range:	85°F to 320°F (broad range available)
Exposure Time:	30 seconds minimum
Shelf Life:	2 years
Adhesive:	1 mil Flexcon, acrylic L-23
Adhesive Characteristics:	320°F maximum (higher temp. available)
Material:	Metallic polyester film

ColdMark

Concerns about the cold affecting the quality of your product can be laid to rest due to the ColdMark Temperature Indicator. ColdMark accurately shows if your product has been exposed to cold below a selected temperature. Its colorless indicator bulb turns an irreversible violet color as the temperature falls below the indicator's response temperature.

Using the ColdMark



Simply peel the release liner off the back of the indicator and apply the pressure sensitive adhesive backing to any dry surface and your product is under control.

ColdMark can be placed on the interior or exterior of a shipping container, but not exposed where it could be crushed.

ColdMark Specifications:

Product Sizes:	3.25" x .75" x .38"
Response Temperatures:	32°F(0°C) & 26°F(-3°C)
Exposure Time:	30 minutes
Shelf Life:	1 year
Temp. Durability Range:	Store above response temperatures up to 110°F (73°C)

WarmMark

WarmMark not only measures if your product has been exposed to an extreme temperature, but indicates the duration of exposure. The benefit of a time-temperature tag is the knowledge that although the product has been exposed to unforeseen temperatures, the length of exposure may not anticipate spoilage.

Application of WarmMark is simple. Remove the activation tab and barrier film and then apply to a dry surface of your product or packaging. From that point on, if the product is exposed above its response temperature, the chemical reaction in the pad will cause the appropriate window to change color.



WarmMark Specifications:

Product Size:	.75" x 1.81" x .06"
Temperature Range:	from 0°F to 99°F (-18°C to 37°C)
Exposure Times:	15-20 minutes, 50-90 minutes, 5-7 hours; up to 48 hrs. also available
Shelf Life:	1 year



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