



ColdMark Temperature Indicator User Manual

ColdMark temperature indicators visually alert users when a temperature breach has occurred so that the appropriate actions can be taken.

Using the ColdMark

1. The ColdMark indicator bulb should appear clear prior to use. The ColdMark does not require special arming to be ready to use.
2. Remove the adhesive liner from the ColdMark and adhere the indicator to a clean, dry surface. The liner can be most

easily peeled from the bulb end of the indicator.

- a. The ColdMark should be located where it will be visible to the receiver of the monitored shipment.
- b. The ColdMark can be adhered directly to the product being monitored or located inside the packaging.

Interpreting the ColdMark

When the ColdMark is exposed to temperatures below the stated activation temperature $\pm 1^{\circ}\text{C}$, the

indicator's bulb will turn from clear to violet.

If upon receipt the ColdMark bulb appears milky white, the ColdMark has been subjected to temperatures that caused the indicator itself to freeze. The indicator bulb will change to violet when it thaws.

A milky white or violet bulb are both indications of a below temperature threshold breach.

The indicator will respond in 30 minutes or less. Colder temperatures will speed the response time of the ColdMark.



Inactive



Activated

Specifications

Temperature Threshold	$-3^{\circ}\text{C}/26^{\circ}\text{F}$; $0^{\circ}\text{C}/32^{\circ}\text{F}$; $2^{\circ}\text{C}/36^{\circ}\text{F}$; $5^{\circ}\text{C}/41^{\circ}\text{F}$; $10^{\circ}\text{C}/50^{\circ}\text{F}$
Shelf Life	2 years
Accuracy of Temperature	$\pm 1^{\circ}\text{C}$ / 2°F
Storage	Stored above activation temperature and below $43^{\circ}\text{C}/110^{\circ}\text{F}$