



## WARMMARK

The ShockWatch environmental indicators monitor temperature during shipping and storage, indicating whether goods have been exposed to unacceptable temperatures.

A single-use indicator, WarmMark is specifically designed to help shippers identify and correct gaps in their temperature-controlled supply chains. The result is increased knowledge of your product's environment when the product is out of your sight and out of your control. That translates into improved product margins by protecting product shelf life, ensuring validated packaging is performing correctly, and reducing packaging costs.

When you use ShockWatch environmental monitors, you can monitor the temperature of every shipment. You and your customers know whether your consumable products have been exposed to unacceptable temperatures – and whether the duration of exposure was long enough to compromise safety and desired characteristics during shipment or storage.

Use ShockWatch products to reliably monitor temperature and duration of temperature deviations so you can better determine the safety and quality of your goods as they move through the supply chain.

### Product Features

- Field-activated
- Tested in both real-world applications as well as lab environment
- Available in rolls - allows for rapid application if needed
- Irreversible color change when temperature breach occurs

### Benefits

- Delivers clear results
- Ensures cold chain accountability
- Individually serialised to help product tracking for internal handling and chain of custody
- Can be shipped & stored under most conditions
- Highest accuracy on the market for indicator technology
- Complete flexibility for customer requirements



## WARMMARK



### Simple to use

This temperature indicator releases a proprietary red dye onto a blotter to clearly indicate when your shipment is exposed to temperature levels above your predetermined level, creating a permanent and immediate indication of the duration of exposure. Activation of the device is simple:

1. Activate by folding the top of the WarmMark up, pull and affix to your package.
2. Turns red in 1-3 spaces depending on exposure duration.



## WARMMARK DUO

This device monitors the exposure and duration of exposure of a product that exceeds two activation temperature levels and works in the same way as the WarmMark.

## SPECIFICATIONS

### Instrument:

Dimensions:	20.32 x 45.72 x 2.54mm
Indication type:	Visual, irreversible white to red colour change in activation window
Activation method:	Manual: Peel back of label
Moisture resistance:	Not suitable for immersion in water
Product life:	2 years from date of sale when stored as recommended
Product active life:	2 years provided the full time period does not exceed 3 years from date of sale
Storage conditions:	Store in a cool dark environment

### Indicator:

Operating temperature range (Activated state):	-18°C to 37°C
Activation temperature exposure time period:	30mins to 48 hours

### Options Available

- 32267 - WarmMark -18°C
- 32268 - WarmMark 0°C
- 32269 - WarmMark 5°C
- 32270 - WarmMark 8°C
- 32271 - WarmMark 10°C
- 32272 - WarmMark 20°C
- 32273 - WarmMark 25°C
- 32274 - WarmMark 30°C
- 32275 - WarmMark 37°C

## SPECIFICATIONS

### Instrument:

Dimensions:	20.32 x 99.06 x 2.54mm
Indication type:	Visual, irreversible white to red colour change in activation window
Activation method:	Manual: Peel back of label
Moisture resistance:	Suitable for immersion in water
Product life:	2 years from date of manufacture when stored as recommended
Product active life:	2 years provided the full time period does not exceed 3 years from date of sale
Storage conditions:	Store in cool dark environment

### Indicator:

Operating temperature range (Activated state):	10°C to 34°C
Activation temperature exposure time period:	Up to 3 days, 8 days, 14 days for 10°C

### Options Available

- 32281 - WarmMark Duo 10°C



## WARMMARK LONGRUN

This device utilises the same chemistry proven in the WarmMark indicators while allowing for a longer exposure to temperatures that exceed the threshold level.

## SPECIFICATIONS

### Instrument:

Dimensions:	20.32 x 99.06 x 2.54mm
Indication type:	Visual, irreversible white to red colour change in activation window
Activation method:	Manual: Peel back of label
Moisture resistance:	Suitable for immersion in water
Product life:	2 years from date of manufacture when stored as recommended
Product active life:	2 years provided the full time period does not exceed 3 years from date of sale
Storage conditions:	Store in cool dark environment

### Indicator:

Operating temperature range (Activated state):	10°C to 31°C
Activation temperature exposure time period:	Up to 7 days

### Options Available

32280 – WarmMark LongRun 10°C

## SPECIFICATIONS

### Instrument:

Dimensions:	ColdMark – 83.82mm x 20.32mm x 10.16mm WarmMark – 45.72mm x 20.32mm x 2.54mm
Indication type:	ColdMark – Visual, irreversible clear to purple colour change in activation window WarmMark – Visual, irreversible white to red colour change in activation window
Activation method:	Peel back of label
Moisture resistance:	Not suitable for immersion in water
Product life:	2 years from date of sale when stored as recommended
Product active life:	6 months provided the full time period does not exceed 2 years

### Indicator:

Operating temperature range (Activated state):	+2°C to +8°C
Activation temperature exposure time period:	30 minutes
Temperature accuracy:	±1°C

### Options Available

32600 - Healthcare ColdChain Complete



## HEALTHCARE COLD CHAIN COMPLETE

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