



ShockWatch® Environmental Indicators monitor temperature during shipping and storage, indicating whether goods have been subjected to unacceptable temperatures.

WarmMark®: This temperature indicator, a proprietary red dye is released 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 — remove the tab and barrier film and apply to a dry surface on your product or packaging.

WarmMark® Duo: This device monitors the exposure and duration of exposure of a product that exceeds two activation temperature levels.

WarmMark® Long Run: This device utilises the same chemistry proven in the WarmMark Indicators while allowing for a longer exposure to temperatures that exceed the threshold level.

Benefits:

- Reduces product damage and loss incurred during transportation and storage
- Provides psychological reinforcement to ensure handlers adhere to optimal temperature conditions
- Provides indisputable evidence of exposure to unacceptable temperature conditions
- Alleviates safety concerns surrounding bacterial growth, infection, and contamination while shipment is in transit
- Ensures compliance with health standards
- Ensures quality of the product throughout transportation cycle
- Identifies potential unacceptable product quality before delivery to end-user
- Alerts recipient to inspect contents before acceptance
- Ensures chain of accountability in storage and transportation
- Protects against/reduces warranty claims
- Identifies trouble spots in storage and transportation
- Increases customer satisfaction and provides a visible marketing edge

Features:

- Available in a wide variety of temperature thresholds
- Visible deterrent to mishandling
- Irreversible indicator — once activated, there is a permanent record of exposure
- Easily identify potential product spoilage from exposure to extreme temperatures
- Tamper-proof designs prevent concealment of activation/ response without obvious evidence of interference
- Easy to install with removal of adhesive backing (arming requires removal of tab)
- Allows for a variety of placement options

Maximise the effectiveness of your environmental indicators with a range of companion tools. The ShockWatch Program includes companion labels, inset cards, and caution tape, which inform carriers and recipients that your goods require specific thermal conditions.

WarmMark Environmental Indicators

Product Codes:

WarmMark Short-run Tags

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

WarmMark Long-run Tags

32280	10°C
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WarmMark Duo Tmp Indicator

32281	10°C,
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Series

ShockWatch

Typical Applications

- Vaccines and pharmaceuticals
- Photographic chemicals and supplies
- Electronic components and products
- Frozen, refrigerated, and fresh food
- Live plants and animals
- Blood/plasma products
- Chemicals
- Adhesives

WarmMark/WarmMark Duo/

WarmMark Long Run Specifications

Activation Temperature Levels:

-18°C, 0°C, 5°C, 8°C, 10°C, 20°C, 25°C, 30°C, 37°C

(WarmMark)

10°C, 34°C

(WarmMark Duo) 10°C, 31°C

(WarmMark Long Run*)

Activation Temperature Exposure

Time Period

30 mins to 48 hours (WarmMark)*

Up to 3 days, 8 days, 14 days

for 10°C

(WarmMark Duo)

Up to 7 days

(WarmMark Long Run)

Size: 20.32 x 45.72 x 2.54mm (WarmMark)

20.32 x 99.06 x 2.54mm (WarmMark Duo/WarmMark

Long Run)

Adhesive: Pressure-sensitive

Storage Condition: Unused product must be stored

in an environment with temperatures below the

response temperature for optimal shelf life

Expiration Date: 2 years from date of manufacture

*Specific activation temperatures apply

