



Freeze Watch™ Indicators

Providing a visual history of freezing temperature exposure



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3M™ Freeze Watch™ Indicators are ideal for monitoring pharmaceutical products—including vaccines, medicines and chemicals—that run the risk of being damaged when exposed to freezing temperatures during shipment and storage.

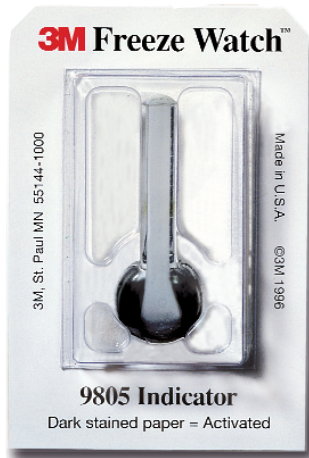
The patented design of Freeze Watch indicators consists of a highly sensitive indicating liquid inside a specially designed ampule. When exposed to freezing temperatures, the ampule fractures, releasing a liquid. The liquid

irreversibly stains a paper behind the ampule, providing a warning that product quality testing should be performed.

Freeze Watch indicators are available at two temperature levels, -4°C (25° F) and 0°C (32°F), to accommodate differing product sensitivities.

Placed directly on secondary shipper boxes of temperature-sensitive products during shipment and storage, the indicators provide a reliable measure of temperature exposure.

3M™ Freeze Watch™ Indicators



Non-Activated



Activated

When exposed to sub-freezing temperatures, the liquid in the ampule freezes, causing the ampule to fracture and stain the indicator paper.

Ordering Information

3M Freeze Watch Indicators

Product	Activation Temperature
9800FW (9800)	-4°C (25°F)
9805FW (9805)	0°C (32°F)

Size: 2-1/4" x 1-1/2" x 1/4" thick (approx.)

Backing: Adhesive backed with peel off release liner.

Packed: 400 units per case

The 3M Freeze Watch indicators monitor temperature exposure, not product quality. Their purpose is to signal when product quality should be checked.

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1-650-596-4469 International

How to Use 3M Freeze Watch Indicators:

1. Attach the Freeze Watch indicator using the pressure sensitive adhesive on the back. Peel the release liner off the back and adhere the indicator to a clean, dry surface.
2. Before reading, the indicator should be in an area above freezing temperature for at least fifteen minutes.
3. To detect if the product has been exposed to freezing temperatures, observe the Freeze Watch indicator. If the indicator paper is stained with color, your product has been exposed.
4. If the indicator paper shows no color indication, remove indicator from the surface to which it is attached. Vigorously tap the bottom edge of the indicator three times on a hard surface. If the paper becomes stained, your product was exposed to freezing temperatures. Tapping will not cause color staining in an unexposed indicator.

Storage:

To prevent premature indication, keep from freezing prior to use. Storage in a controlled environment at 5° to 32°C (41° to 90°F), 20 to 60% relative humidity, is suggested.

Shelf Life:

If stored at suggested conditions, shelf life for the 9800FW, -4°C indicator is three years from date of manufacture and two and one-half years for the 9805FW, 0°C indicator.



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40% pre-consumer waste paper
10% post-consumer waste paper

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