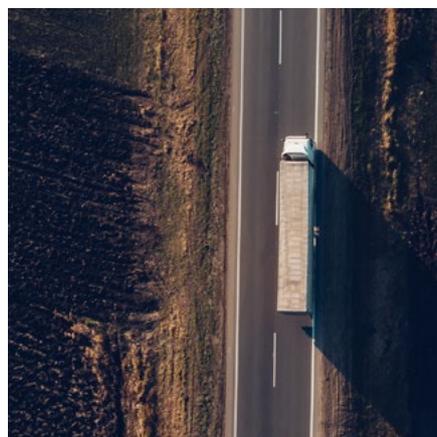
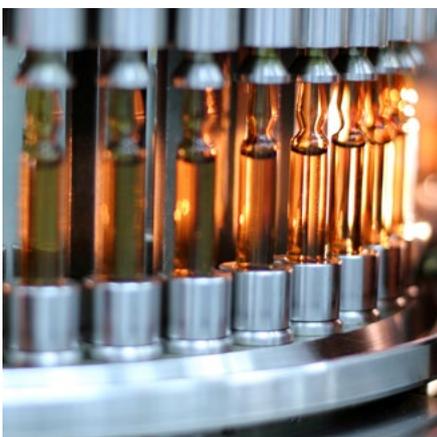


# WarmMark Temperature Indicators



Are you sure that unacceptable temperature during transit has not compromised your product's quality and efficacy?

Refrigeration equipment is not always reliable. Temperatures can vary dramatically during transit – trailer, distribution centers, storage. Your product may encounter unexpected delays in areas with less than ideal conditions.

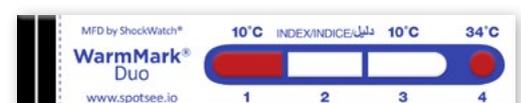
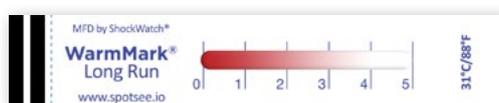
WarmMark time-temperature indicators provide a cost-effective tool for monitoring the temperature of your

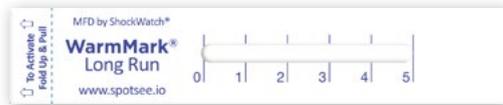
package. They are single-use devices that provide accurate, irreversible evidence of a temperature excursion. With the information you gather from these indicators, you can make smarter decisions across your cold chain.

### Benefits

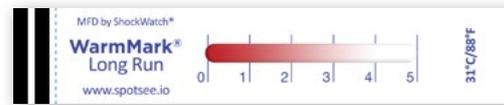
- Delivers irreversible evidence of exposure to unacceptable temperature conditions
- Provides cost-effective solution for last mile monitoring

- Enables easy accept/reject decisions to be made
- Assists in verifying the adequacy of the cold chain packaging
- Aids in compliance with regulatory guidelines
- Saves money and space since field armable indicators require no special packaging or storage
- Available in pre-armed configurations for high-volume packaging environments





Inactive – WarmMark Long Run



Armed and Activated



Inactive – WarmMark Duo



Armed and Activated

## Run Out Times

3 Window Indicators	Brief	Moderate	Prolonged
-18°C/0°F	1 hour	3 hours	12 hours
0°C/32°F / 8°C/46°F 10°C/50°F / 20°C/68°F	2 hours	12 hours	48 hours
5°C/41°F / 25°C/77°F 30°C/86°F / 37°C/99°F	30 minutes	2 hours	8 hours

1 Window Indicators	
8°C/46°F / 25°C/77°F	8 hours
8°C/46°F	12 hours

Long Run Indicators	Line 1	Line 2	Line 3	Line 4	Line 5
10°C/50°F / 31°C/88°F	12 hours	30 hours	60 hours	110 hours	168 hours

Duo Indicators	Window 1	Window 2	Window 3	Window 4
10°C/50°F	3 days	8 days	14 days	
34°C/93°F				within 20 minutes

## Specifications

Accuracy of Temperature	±1°C/ ±2°F
Shelf Life / Storage	2 years from manufacturing date / Cool, dark place below activation temp, 35-55% RH