



FreezeSafe - How to Use Instructions

FreezeSafe descending temperature indicators visually alert users when a temperature breach has occurred so the appropriate action can be taken.

Using FreezeSafe:

1. The FreezeSafe indicator should be clear and may appear light magenta prior to use. The FreezeSafe does not require special arming to be ready to use.
2. Remove the FreezeSafe indicator from the sheet and adhere the indicator to a clean, dry surface.
3. The FreezeSafe should be adhered directly to the product or located as close to the product being monitored as possible and where it will be visible to the receiver inside the packaging.

Interpreting the FreezeSafe:

When the FreezeSafe is exposed to temperatures below the stated activation temperature $\pm 1^{\circ}\text{C}^*$, the indicator will turn from clear to magenta.

The FreezeSafe will respond according to the information below:

- 0°C Within 30 minutes
- 2°C Within 90 minutes
- 5°C Within 120 minutes



Unactivated



Unactivated



Activated

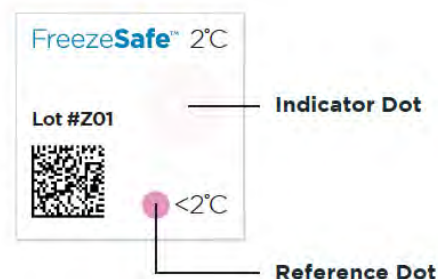


Interpreting the FreezeSafe (continued):

SpotSee freeze indication uses a colour changing indicator dot (large) and a static reference dot (small). Freeze exposure beyond the time and temperature specification is shown when the indicator dot is as dark, or darker, than the reference dot.

An indicator dot may start clear, or light magenta, and show colour darkening but remain lighter than the reference dot. This means the indicator saw exposure to the threshold temperature for less than the specified activation time.

Exposure to lower temperatures will result in faster colouration and exposure to temperature above the threshold, but still within tolerance, will result in slower coloration. FreezeSafe is a cumulative colour change relative to exposure time.



Example:

The 2°C threshold indicator dot will be as dark as the reference dot in 90 minutes at 1°C (within 1 year of date of manufacture). If exposed to 1°C for some period of time, say 60 minutes, the indicator dot will appear darker than prior to use and lighter than the reference dot.

Storage Recommendations:

FreezeSafe indicators should be stored out of direct light between 15°C and 25°C.