



# P8003 不可逆温度指示标签

技术和使用信息

P8003不可逆温度指示标签是一款自粘、自激活的检测工具，它提供了一个可视的、不可逆的、加工中的最高温度记录。该记录通过在观察窗口里的颜色由白到红的变化实现。

该指示标签是一个40\*50mm的、并带有激活物质的印刷标签。标签正面由一层透明的压敏粘合剂保护，背面有一层耐久的超强粘合剂并由一层防粘膜覆盖。当防粘膜被移去后，暴露的粘合剂可以将标签粘贴到大多数清洁、干燥的表面。该标签提供了一个高精度、灵活、无毒、无填充液体、且不可破坏的指示剂。

该指示标签上的化学品被校准以于标识温度 $\pm 1^{\circ}\text{C}$ 时起反应，当化学物质反应发生时，该反应导致一个永久的、不可逆的、观察窗口里的颜色变化。该指示标签在任何时候都可以被用于检测加工中的温度，它是在ISO 9001认证的工厂生产的。

## 保存

总是将该指示标签保存在一个凉快的区域 ( $<26^{\circ}\text{C}$ )。冷藏环境 ( $4^{\circ}\text{C}$ - $16^{\circ}\text{C}$ ) 保存是一个首选的保存方法。冰冻环境保存没有发现对指示功能有负面的影响。

## 注意

该指示标签反应迅速！请小心的在凉快的环境下操作。

$27.5^{\circ}\text{C}$ 、 $30.0^{\circ}\text{C}$  和  $32.5^{\circ}\text{C}$  指示圆点可以被人体加热而变色，避免用手触碰这些点。

如果对一个产品粘贴大量的该标签（例如，一个剂量分布试验），辐照前，将产品存放在一个凉快的区域。

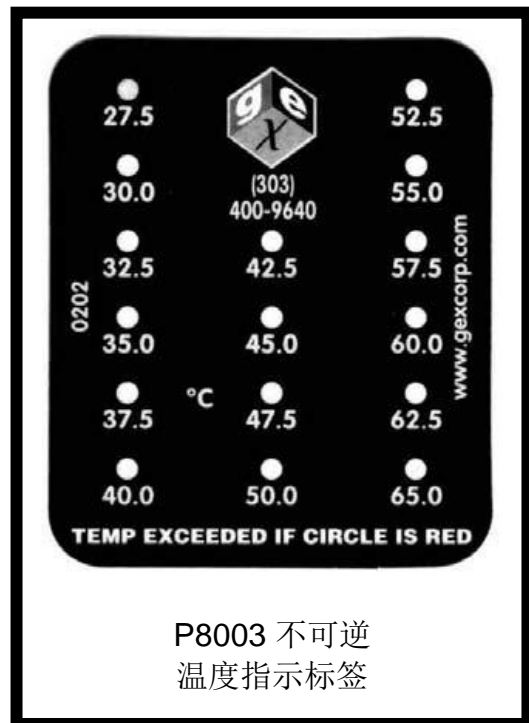
P8003上的粘合剂是耐久的，不要使用自粘背胶将其粘贴到任何您不想要永久贴敷的表面。用胶带沿着边缘贴敷标签是一个不错的选择。

## 使用说明

将标签平贴被检测的表面，比如一个B3WINdose 剂量计的包装。该标签是自反应的且不需要进一步的行动。当某个特定温度达到时，圆点改变颜色。加工中达到的最大温度就是红色窗口指示的最大值。

## 应用

这些不可逆温度标签可以被用来测量辐照过程中产品和材料的最大温度，用于必须测量温度的校准辐照或工厂或产品剂量分布鉴定，他们也是很理想的。更多关于工厂校准温度估算的指导，请参见NPL CIRM Report 29。P8003 温度标签也可以用于日常辐照加工和许多其它应用的温度监测。



P8003 不可逆  
温度指示标签



# P8003 不可逆温度指示标签

技术和使用信息

The P8003 Irreversible Temperature Indicator is a self-adhering, self-activating monitoring tool that provides a visual, non-reversible record of the maximum temperature in a process. The record occurs by a change of color from white to red in the viewing window.

The indicator is a 1-5/8" by 1-15/16" printed label with activation material applied to the unit. The top of the indicator label is protected by a clear pressure sensitive adhesive, and the back has a permanent supertack adhesive covered by a release liner. When the release liner is removed, the exposed adhesive allows attachment of the indicator to most clean, dry surfaces. The label offers a highly accurate, flexible, non-toxic, non liquid-filled, and non-breakable indicator.

The chemicals in the indicators are calibrated to react at the labeled temperatures  $\pm 1^\circ\text{C}$ . When the chemical reaction occurs, activation causes a permanent, non-reversible color change in the viewing window. The indicator labels can be used at any time to monitor the temperature in a process. This product is manufactured in a certified ISO 9001 facility.

## Storage

Store the indicators in a cool area (below 78 °F or 26 °C) at all times. Storage in a refrigerated environment (40 °-60 °F or 4 °-16 °C) is the preferred storage method. Storage in a freezing environment has not been shown to adversely affect the functioning of the indicator.

## Cautions

The indicators react immediately! Handle with care in a cool area.

The 27.5 °, 30.0 ° and 32.5 ° indicator circles can be changed by a person's body heat. Avoid handling the label near these points.

If attaching a large quantity to a product (for example, a dose map), keep the product in a cool area before irradiation.

The adhesive on the P8003 indicator is permanent. Do not use the self adhering backside to attach the indicator to anything that you do not want it permanently affixed to. Taping the backing along the edges is the suitable alternative to attach the indicator.

## Instructions for Use

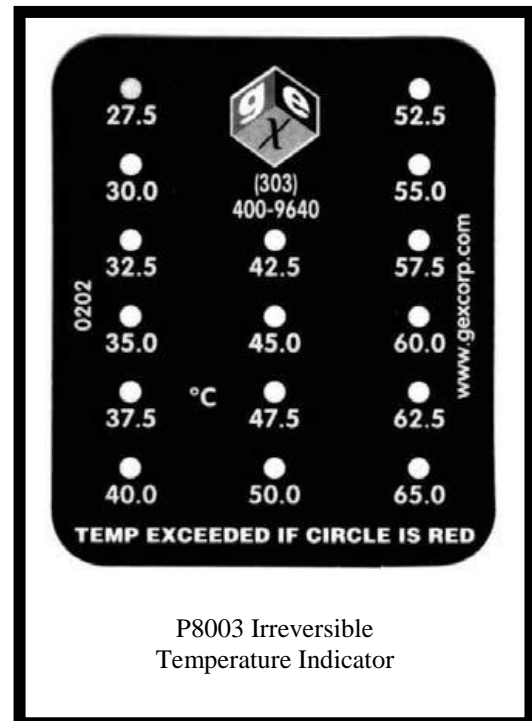
Attach the indicator flat against the surface being monitored, such as a B3WINdose dosimeter package. The indicator is self-activating and needs no further action. As a specific temperature is reached the circle changes color. The maximum temperature reached during a process is the highest

value indicated with a red window.

## Applications

These irreversible temperature paper sets may be used to measure the maximum temperature of products and materials during radiation processing. They are also ideal for use during calibration irradiations where the temperature must be measured or in dose mapping characterization of facility or product. See NPL CIRM Report 29 for guidance in estimating temperature during in-situ calibration. P8003 temperature paper sets may also be used to monitor temperature during routine irradiation processing and many other applications.

©2004 GEX Corporation.



P8003 Irreversible Temperature Indicator