



## TITEMS Monitor High Precision Chemical Indicator - Steam

**TITEMS**  
TIME • TEMP • STEAM



### functionality

Titems Monitors HP (High Precision) are designed for use in steam sterilizers, providing an integrated response to defined combinations of time, temperature and presence of moist saturated steam. These attributes are monitored to a point that is well in excess of biological spore kill where upon the indicator spot will change from blue to black.

### features : sterilization monitor

### Class 4 Indicators

The Titems Monitor HP product line includes :

Qty	Description	Code
CHEMICAL INDICATORS		
1000/pkt	TITEMS Monitor HP LONG	<b>AUS420</b>
2000/pkt	TITEMS Monitor HP SHORT	<b>AUS410</b>
125/pkt	TITEMS Monitor HP SHORT	<b>AUS415</b>

### storage

Titems Monitor HP should be stored at 0° - 45°C and 10 - 90% humidity in ziplock bags provided. When stored as directed, indicators have a shelf life of 3 years.

### implementation

Austmel Titems Monitor HP Class 4 are autonomous single use test strips. The Titems Monitors HP consists of one spot and is also available in the long version which has two spots and is twice the length of the type shown above. For use in sterilizers operating at temperatures from 134°C for 3.5 minutes or longer. In a best practice environment the interpretation of the Titems Monitor HP would be recorded as part of an integrated and approved QA system procedure specific to that user environment.

### summary

#### Titems Chemical Indicator

- Class 4 Performance
- Sterilant specific (only changes in steam)
- Easy interpretation
- Can monitor the mechanical aspect of the boiler, steam lines and sterilizer.
- Can monitor the quality of the preparation of individual packs, the loading of the chamber and the use of steam in other areas of the hospital.
- Requires correct time & temperature with the presence of steam
- Accuracy through purity and quality of formulation
- High reliability

### quick reference

Titems Monitor HP features



Another quality product selected and stocked by:

WM Bamford & Co Ltd p 0800-BAMFORD f 04-569-6489  
e enquiries@bamford.co.nz www.bamford.co.nz

When performance counts





# TITEMS Monitor High Precision Chemical Indicator - Steam

## interpretation guide

**objective :** During a successful steam sterilization process the indicator spot printed on the monitor strip must turn from blue to a uniform black, as dark or darker than the colour standard. All traces of the original blue colour of the monitor strip must completely disappear.

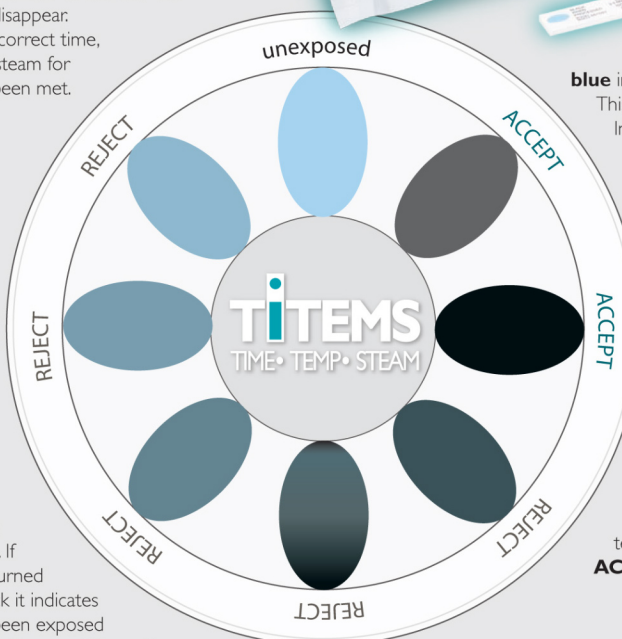
**Interpretation:** correct time, temperature and steam for sterilization have been met.

**ACCEPT**

The Indicator Spot is uneven in colour; not a dark as the standard or not black.

**Interpretation:** insufficient time, temperature or lack of steam.

If the Indicator Spot is still blue, it indicates that the item has not been exposed to steam. If the spot has not turned completely to black it indicates the item has not been exposed to sufficient sterilization conditions of temperature, time or steam equivalent. This could be due to poor steam quality, sterilizer failure, poor preparation of individual packs or poor loading of the chamber. **REJECT**



The Indicator Spot is **blue** in colour. **Interpretation:** This indicates that the Indicator Spot has not been exposed to steam. **UNEXPOSED**

The Indicator Spot is **silver** in colour. **Interpretation:**

This indicates that the Indicator Spot has been exposed to excessive sterilization conditions. This is still acceptable but means that the sterilization was performed for an unnecessary time at temperature.

**ACCEPT**

Customer Support 0800 226 367

## Instructions for use of the Titems Monitor HP:

1. Place one Titems Monitor HP strip in each pack, peel pouch or tray to be steam sterilized. The strip should be placed at a location in the package that is considered to be the most difficult for steam to reach. For larger packs, use several Titems Monitor HP strips and place them at several locations in the pack/tray.
2. Sterilize package as usual in steam sterilizer.
3. Following the sterilization cycle, visually verify that the spots at the end of the strips have changed colour from blue to black.

4. If the indicator does not change to black, inadequate sterilization conditions are suggested. The item(s) must be resterilized with a new indicator strip. Under certain conditions, it may be necessary to reduce the size of the pack or repackage the item(s).

**SAFETY PRECAUTIONS:** If there are any doubts about the sterility of the item(s), it must be considered NOT sterile. DO NOT use strips with spots that are not blue prior to exposure to steam processing.

## quick reference

Titems Monitor HP features



TIME PARAMETER



TEMPERATURE



STEAM

## related Titems Monitor HP products :

- Titems Diagnostic Emulator
- MEDITRAX® Flash Labels
- Prion Indicators
- Steam Chart 121 Integrator
- MEDITRAX® Surgery Integrator Labels

