

# Sterilization Indicators

Self-adhesive process indicators that change color during sterilization



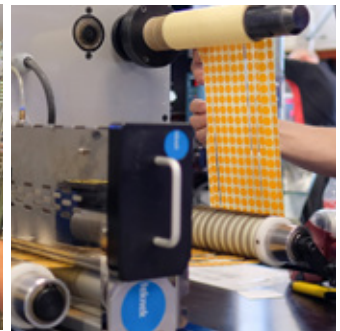
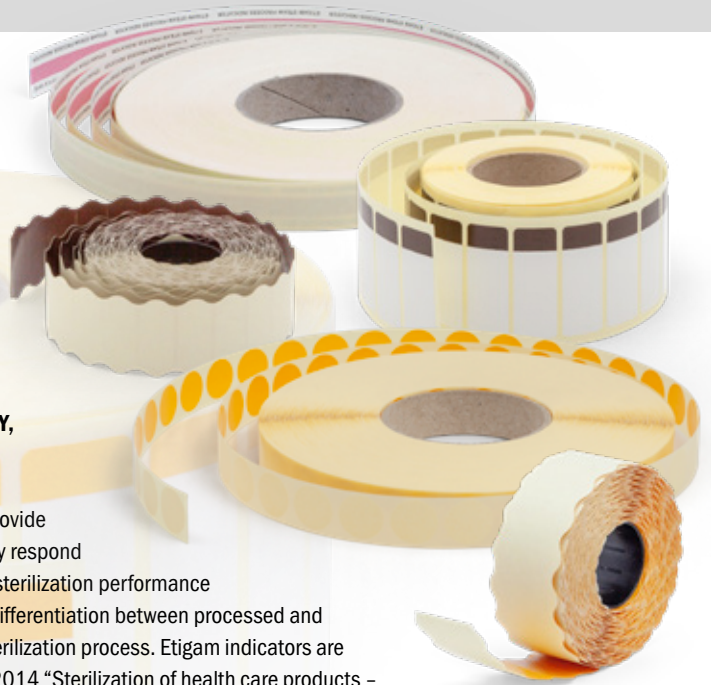
**SteriMark Inc.**   
STERILIZATION INDICATORS

*Visual evidence at your fingertips*

# Introduction to our sterilization indicators

**AN ESSENTIAL PART OF ANY STERILITY-ASSURANCE PROGRAM IS THE CHEMICAL STERILIZATION PROCESS INDICATOR. ETIGAM INDICATORS CAN BE USED IN GAMMA, E-BEAM, X-RAY, EO GAS AND STEAM PROCESSES.**

Etigam type 1 sterilization indicators are developed to provide visual evidence that products have been processed. They respond with a significant color change on the defined minimum sterilization performance requirements. Sterilization indicators are used to allow differentiation between processed and unprocessed items, and/or indicate gross failure of a sterilization process. Etigam indicators are manufactured following the guidelines of ISO 11140-1:2014 "Sterilization of health care products - chemical indicators - part 1: General requirements".



**EO**

## Sterilization process indicators

Color change violet - green



Etigam self-adhesive EO gas indicators provide visual evidence that items have been processed. They respond to physical conditions during the process with a significant color change from violet to green. The shade of green may vary depending on the process parameters used (time, temperature, gas concentration, gas mixture etc.). Standard indicators can be supplied from inventory. Customized labels are available upon request.

**code & description**

**unprocessed**

**processed**

**8.01**  
circular indicator, Ø 12,7 mm



**8.14**  
indicator for use with a METO hand applicator\*, 26 x 12 mm



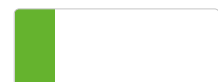
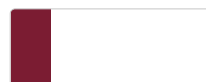
**8.01.17**  
circular indicator with text 'green is ETO exposed', Ø 12,7 mm



**8.(12,7)P05**  
circular indicator with diapositive text 'green is EO exposed', Ø 12,7 mm



**8.(42x16,5)**  
rectangular label, can be printed, 42 x 16,5 mm



## IRRAD

# Sterilization process indicators

Dose range >10 kGy (>1 Mrad)

Color change yellow - red



Etigam self-adhesive irradiation indicators provide visual evidence that items have been exposed. They respond to gamma, e-beam and x-ray radiation with a significant color change from yellow to red. Standard indicators can be supplied from inventory. Customized labels are available upon request.

Applications include:

- sterilization of medical and pharmaceutical products
- cross linking of polymers
- preservation of foodstuffs
- decontamination of herbs and spices

**code & description**

**non-irradiated**

**irradiated**

**2.01**  
circular indicator, Ø 12,7 mm



**2.01 Y Exp**  
circular indicator with text 'red is γ exposed', Ø 12,7 mm



**2.12.04**  
square indicator with printed circle with text 'red is γ exposed', 14 x 14 mm



**2.12.06**  
square indicator with text 'red is β exposed', 14 x 14 mm



**2.14**  
indicator for use with a METO hand applicator\*, 26 x 12 mm



**2.(52x17)**  
rectangular label, can be printed, 52 x 17 mm



Dose range > 6 kGy (0,6 - 1 Mrad)

Color change green - violet



**3.3.01**  
circular indicator, Ø 12,7 mm



## STEAM

# Sterilization process indicators

121°C/1 bar or 134°C/2 bar

Color change pink - dark brown



Etigam self-adhesive steam indicators provide visual evidence that items have been exposed. They respond to physical conditions inside an autoclave with a significant color change from pink to dark brown. Standard indicators can be supplied from inventory. Customized labels are available upon request.

**code & description**

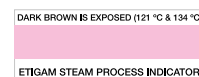
**unprocessed**

**processed**

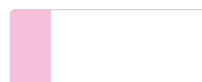
**4.01**  
circular indicator, Ø 12,7 mm



**4.(38x14)**  
rectangular label, with text, 38 x 14 mm



**4.(42x16)**  
rectangular label, can be printed, 42 x 16 mm



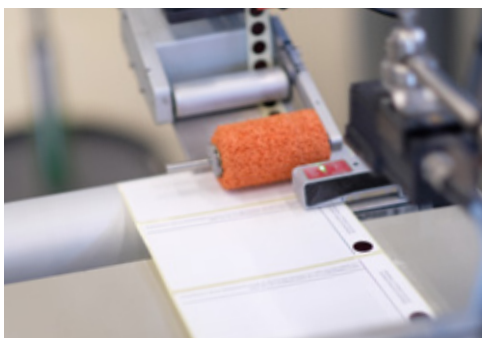
images 8.(42x16), 2.(52x17), 4.(38x14) and 4.(42x16) not at actual size

\*Can be applied easily and fast with a METO hand applicator



## Customized designs on request

Customized product labels are available in various dimensions. Etigam can supply these upon request. They are already provided with an indicator dot or strip, reducing the time and costs of additional handling. The product labels can also be pre-printed with company details.



### ADVANTAGES:

- saving on labor
- consistent positioning of the indicator
- labels available for thermal or thermo transfer
- high visibility
- batch identification and visual sterilization evidence on 1 label

## Other special products

A wide range of other products is available in addition to the products mentioned in this brochure.

### 1.1.01

irradiation indicator, color change yellow - violet

**non-irradiated**



**irradiated**



### 5.3.01.07

irradiation indicator, color change green - violet, striped design

**non-irradiated**



**irradiated**



## PE labels and cores

on request available on PET backing and PE cores

## VH2O2 indicator tape

for use in hydrogen peroxide (plasma) cycles

## METO hand applicator

for fast and easy application, with or without printhead



**Also available**

**Biological Indicators**



The print methods which are used to produce this folder differ from the methods used in our indicator products.

**SteriMark Inc.**   
STERILIZATION INDICATORS

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