

BOWIE & DICK EARLY WARNING TEST



Product description

KIMS Bowie and Dick test pack with early warning sheet is designed to provide information on the operating status of the autoclave.

It consists of a package designed to establish a controlled vapor barrier.

Two indicators are placed inside it, a standard indicator sheet for the Bowie and Dick test and another sheet (for early warning) with a reactive circle which reacts to the steam. The early warning sheet reacts more slowly than the standard sheet, detecting possible autoclave failures earlier.

Presentation

Test pack of 127 x 98 x 18 mm with two internal reactive sheets, uniform filling, resistant sealing and external indicator.

Lot number and expiration date in internal reactive sheets and external packaging.

Classification

Type 2 sterilization indicator process complies with ISO 11140-1:2014 standards.

Type 4 sterilization indicator process complies with ISO 11140-4:2007 standards.

Shelf-life

36 months from the date of manufacture

Stated values

Stated values follow standard Bowie - Dick cycle of 134 °C - 3.5 minutes. Test pack is also suitable for a 121 °C - 12 minutes cycle.

Quality control

Quality system according to ISO 9001: 2015, ISO 13485:2016 and GMP (Good Manufacturing Practices).

Stability

Stability has been verified from manufacture to expiration date, 36 months after date of manufacture.

Authorization and habilitation

ANMAT: PM 1454-44

Test Characteristics

Lead free indicators, sensitive to saturated steam, exposure time and temperature.

The indicators reacts through the combination of exposure time and temperature in the Bowie-Dick cycle.

Directions for use

Run a Bowie and Dick cycle (134 °C / 3.5 minutes). At the end of the cycle, open the package and observe the internal sheets.

If the two sheets fail, the autoclave must be considered out of order, a technical service must be required.

If the standard sheet is totally black but the early warning sheet has not completely turned, it means that the autoclave can be used but it has some failure which does not prevent it from being used, but a prompt service is required.

If the two sheets turn to black it means that the autoclave is working out in optimal conditions.

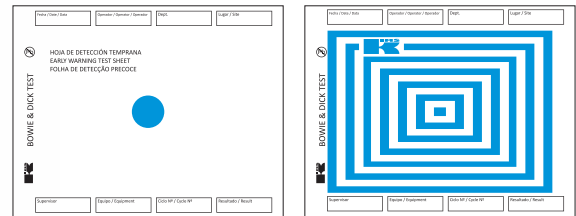
In any case of failure, the test must be always repeated before evaluating the results.

Cautions and warnings

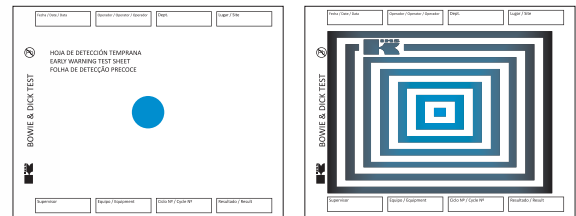
Storage temperature should be between 5 and 50 °C. Moisture should be avoided to prevent inactivation of reactive agents upon exposure. If the indicator accidentally gets wet must be discarded and cannot be used. Avoid contact with, or storage near volatile chemicals, cleaning agents and adhesives to prevent alterations in the indicator.

Bowie - Dick Test

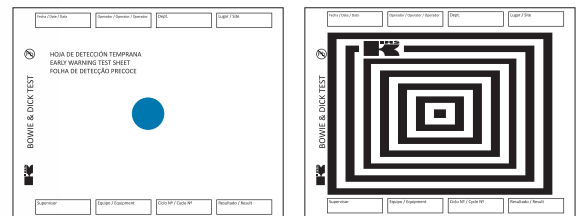
Results Guide



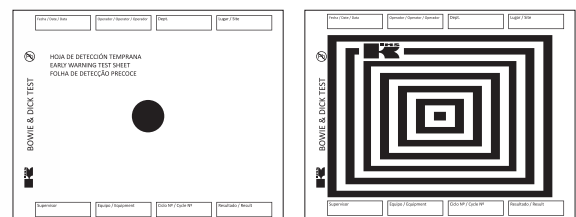
UNPROCESSED



FAILURE



FAILURE



CORRECT PROCESS