Product Description

The B&D indicator is used for daily monitoring of steam sterilizers. The indicators comply with the requirements of ISO 11140 and are designed to check the steam penetration performance and the complete removal of residual air in the sterilizer chamber. This test indicates whether saturated steam can penetrate all points of the load or not.

This test is specific to pre-vacuum sterilizers because in these devices the air is evacuated by a vacuum pump before the steam enters.

Storage and Handling

The indicators should be stored in a dry, cool place away from oxidants and liquids.

The recommended storage temperature is between 0-40°C (32-104°F) and relative humidity between 10-70%.

Store unused indicators in their original packaging.

The product should be stored away from direct light.

Limitations and Safety Recommendations

Do not use indicators that have changed color before the sterilization cycle.

These indicators are suitable for steam sterilization.

Do not use the product if its expiration date has passed.

A biological indicator should also be used to check the correct operation of the autoclave and biological monitoring.

Use the Helix indicator to control and check the penetration of steam into hollow and hollow items loaded in the autoclave.

If the indicator plate is still hot after being removed from the device, do not place it on a cold surface. If the indicator plate encounters a cold surface before the indicator equilibrates, the indicator may return to its original color.

How to use

1. Before starting the working day, you must use the B&D indicator to start using the autoclave.
2. The chamber of the device must be empty.
3. It is important that the sterilizer must be warm before starting the test. For this purpose, if there is a Warm Up program or heater in the device, it is recommended to start the B&D test before starting the test.
4. Place the indicator on the lower floor of the device chamber and near the discharge point.
5. After the process is complete, carefully remove the indicator and allow it to cool.
6. This indicator changes color from pink to black when exposed to a steam sterilization cycle with acceptable vacuum cycles.
7. The color change should be similar to Table 2. If it does not match the desired color, the problem may be with the quality of the steam, lack of vacuum, or the presence and leakage of air during the vacuum phase, which should be checked by the technical unit.

Detection temperature	Time required for detection (during the sterile process)	Pressure required for detection (during the sterile process)
121 °C	15 minutes	1.2 bar
134 °C	3.5 minutes	2.1 bar

Table 1

Figure 1

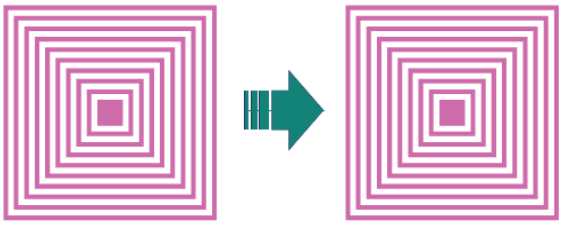
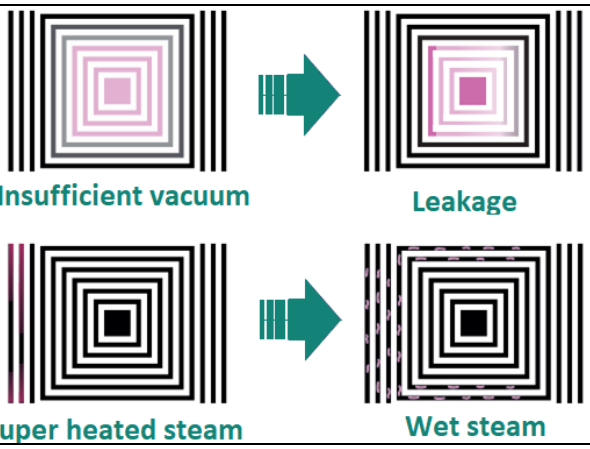
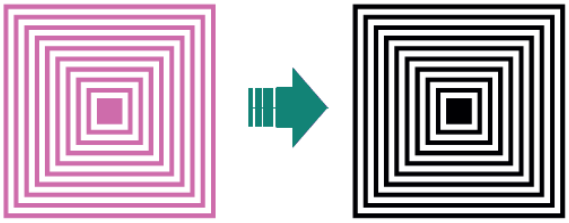
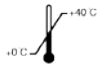
Unprocessed Not exposed to saturated steam or cycled.	
Failure These results are usually obtained when the steam quality is poor or proper vacuum is not achieved.	
processed Processing is done correctly and accurately.	

Figure 2 Acceptable and unacceptable conditions for the sterilization process

Disposal

Discard along with cardboard waste according to your country´s healthcare regulations.

Explanation of Symbols

Product is designed for steam	STEAM	Keep dry	
Manufacture date		for more information use IFU	
Expiration date		Temperature range	
CE mark		Keep away from sunlight.	
Lot number		Do not re-use.	
Manufacturer		Do not use if the package is damaged.	
This product is non-sterile.		Reference/Catalog Number