

Chemical Process Indicators (CPIs) For monitoring Dry Heat & Depyrogenation Sterilisation Processes (CLASS / TYPE 1)



Product Description

Excelsior Dry Heat chemical process indicator labels contain no lead or other toxic heavy metals.

CPI-DH01 are intended for use with individual units (e.g. packs, containers) to indicate that the unit has been directly exposed to a high temperature dry heat and to distinguish between processed and unprocessed units. The indicators colour transition from blue to dark grey/black.

Physical Properties

Process	Dry Heat
Dimensions	12.7 mm (0.5") Dot
Packaging	5,000 Indicators/Roll
Chemical Indicator	Initial Colour: Blue Signal Colour (dry heat) : Dark Grey Signal Colour (depyrogenation) : Black Chemical Indicator inks contain no lead or other toxic heavy metals

Indications for Use

The indicators are use in high temperature dry heat sterilizers operating at 160°C.

Class 1 / Type 1 Process Indicator Requirements:

- 160°C for 40 minutes



Instructions for Use

Use an indicator on each item, pack, peel pouch, or tray that will be processed by dry heat. Place at a location considered most challenging for dry heat to reach. Process packages/items as instructed in the steriliser validation or manual.

Upon exposure to dry heat, the indicator will transition from blue to grey to black. The transition colour may vary depending on the load configuration, length and conditions of exposure. A colour transition from blue to a shade of grey/black provides indication of exposure to dry heat. If the signal colour is still not achieved this suggests ideal sterilisation conditions may not have been met.

The chemical reaction which causes the colour transition is a dry heat specific reaction and is irreversible under most conditions.

Performance Characteristics

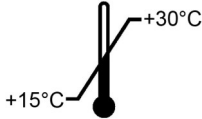




Result Availability	Immediately following exposure to dry heat processes
	Exposed to 160°C, 40 minutes*
	Exposed to 250°C, 60 minutes*
	

*Colours shown are representations of printed ink initial and signal colours but may vary from actual use.



The signal colour achieved from exposure may vary from the example above due to differences in processing parameters (i.e. load content, cycle time, temperature etc.)
For a Type 1 Process indicator for dry heat, a colour change to a shade of grey/black produced during exposure is considered acceptable.

Storage and Shelf Life

	15°C to 30°C		Keep away from Sunlight
	20% to 80% relative humidity		Keep Dry
Shelf Life	3 years from the date of manufacture. The date of manufacture is based on the day the indicating ink is applied to the substrate. The remaining shelf life upon receipt will be shorter than 3 years		
	Keep away from sterilants. Do not use damaged indicators or indicators which have already transitioned. Do not use after expiration date.		

Disposal

Discard as general waste.

For additional product information:
Please visit us at
www.excelsiorscientific.com
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