

Ax-Series i-Pulse black-to-red colour change ink

Ink 3BK102 is typically used in the canned food industry where the product undergoes a retort, or steam sterilisation process which causes the ink to change colour from black to red. This gives a visible indication of whether the product has been retorted or not, with the operator typically viewing product at pallet level.

Ax-Series i-Pulse ink 3BK102 gives a black to red colour change when coded products have gone through a retort, or steam sterilisation, process. The ink also adheres well if there is a thin film of e.g. cooking oil, olive oil present on the tin can products. The printed code requires steam as part of the colour change process.

The ink will change colour when exposed to a steam environment at 115°C for a minimum of 20 minutes. Higher temperatures and/or longer times should not adversely affect the printed code.

Key features

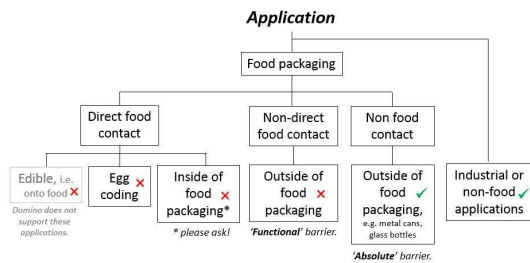
- Black-to-red colour change ink
- Requires retort process at 115°C for 20 minutes for colour change
- Designed for metal canning applications



Product overview

Ax-Series i-Pulse back-to-red colour change canning ink

Approvals & Certifications



This ink is suitable for use on Absolute barriers Containers such as metal cans where there is zero possibility of ink components migrating through the container into the packed food/drink inside.

This ink is NOT suitable for use on Functional barriers. With some packaging, such as plastic containers and film substrates, it is possible that ink components may migrate through to the foodstuffs inside: a 'functional barrier' is where any migration is within defined limits. It is the customer's responsibility to carry out migration tests of the printed codes on their products; Domino can offer support under NDA.

This ink is NOT compliant with Swiss Ordinance SR817.023.21. This ink is NOT manufactured to EuPIA GMP standards. If unclear about the suitability of this ink in a given application, please refer to your local Account Contact who will escalate via Channel Support as needed.

Part number and packaging

	Part number	Container	Quantity	Shelf life
Ink	IC-3BK102	Cartridge (0.825 litre)	Each	12 months
Make-up	MC-3BK102-4	Cartridge (1.2 litre)	Case of 4	24 months
Wash	WL-300	Bottle (1litre)	Each	24 months

Printer compatibility

Ax350i, Ax550i i-Pulse Printhead	3 and 6 metre conduit	60 and 75 micron nozzle
i-Tech module	Type 2 module	ITM life 6 months

Storage and operational environment

Storage and transportation	Temperature: 5°C to 35°C	Humidity: 10%-90% RH non-condensing
Printer running environment	Temperature: 5°C to 35°C	Humidity: 10%-90% RH non-condensing

End user properties

The ink is suitable for coding onto food packaging with an Absolute Barrier, such as tin cans.

Supporting documentation

Safety Data Sheets	SDSs for all supported jurisdictions / languages are available through the SDS link on the Domino website home page
Technical Data Sheets	A TDS for the ink is available on the My Domino MSIP portal.

Quality Assurance

Domino always recommends that only Domino fluids are used in Domino printers. All Domino fluids are fully tested in Domino printers to assure optimum levels of performance throughout the specified operational envelope. All Domino fluids should be used within their rated Shelf Life.

We reserve the right to change the design or specification of our products without notice. Some of the information contained in this brochure is general in nature and customers should check that it is applicable to their individual circumstances. Version OD1. September 2016.