

Ax-Series i-Pulse black-to-blue ink

7BK104 is black-to-blue colour change ink for use in Ax-Series printers. It is designed for use in the metal can food industry where products undergo a retort, or steam sterilisation, process. Through this process the ink changes colour from black to blue which gives a very visible indication as to whether the product has been retorted or not, with the operator typically viewing products at pallet level.

Ink 7BK104 is black-to-blue colour change ink for use in the Ax-Series printers. It is typically used in the metal can food industry where the product undergoes a retort, or steam sterilisation, process. We also offer inks 3BK102 which provides a black-to-red colour change through the same type of retort process.

The ink will change colour when exposed to a steam environment at 115°C (240°F) for a minimum of 20 minutes. Higher temperatures and/or longer times should not adversely affect the printed code. The ink runs in the Ax-Series Ax150i, Ax350i, Ax550i i-Pulse Printhead printers, see Ax-Series Configuration Chart.

Key features

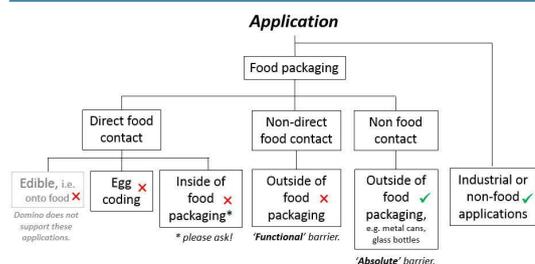
- 'Colour change' ink - printed code changes from black to blue when products are steam sterilised (retort process).
- Retort process typically 115°C for 20 minutes or more
- Fast dry ink, 2 seconds or less



Product overview

Ax-Series i-Pulse black-to-blue ink for steam sterilisation (retort) metal canning applications.

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-7BK104	Cartridge (0.825 litre)	Each	12 months
Make-up	MC-7BK104-4	Cartridge (1.2 litre)	Case of 4	18 months
Wash	WL-700	Bottle (1litre)	Each	12 months

Printer compatibility

Ax150i i-Pulse Printhead	3 metre conduit	60 micron nozzles
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 45°C	Humidity: 10%-90% RH non-condensing

End user properties

Printed codes from this ink will undergo a black to blue colour change when the product goes through a retort, or steam sterilisation, process which is typically a steam environment at 115°C (240°F) for a minimum of 20 minutes. Higher temperatures and/or longer times should not adversely affect the printed code. The colour change requires steam as part of the process: the colour change will not occur in dry heat.

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. December 2016.