

Technical Data Sheet

Steam Indicator Ink for Flexography Printing Processes



ISBP-01

True Indicating's Steam Ink, Product Code ISBP-01, is a flexographic ink formulation used to monitor exposure to steam (moist heat) conditions. The ink is a water-based formula. The ink is supplied in two parts (PART A and Part B) and requires mixing prior to use.

Physical Properties

Process	Steam
Ink Carrier	Water
Packaging	HDPE or equivalent containers
pH	9.0 – 10.5
Viscosity Zahn Cup # 2	15 - 23 seconds
Ink Appearance	Part A: White Liquid, Part B: Blue liquid
Printed Indicator Color	Initial Color: Blue Signal Color: Pink
Anilox Roller	200 – 100 lpi
Flexographic Line Speed	≥150 ft./min.

Intended Use

Indicator Ink is intended for manufacture of Steam Process Indicators. The Indicators are intended for use in distinguishing processed from unprocessed goods or to indicate exposure to a sterilization process at a stated value (SV). Validation of Indicators and their performance is at the discretion of the manufacturer. The Indicator Ink has been confirmed to be ISO 11140-1:2014 Type 1 compliant on paper, Tyvek® or Film when exposed per the conditions outlined below. This ink can be utilized to create Type 4, Type 5, and Type 6 indications for Steam. Contact True Indicating for your specific application.

Type 1 Process Indicator	121°C for 10 minutes 134°C for 3.5 minutes
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Printed Indicators manufactured with ink ISBP-01 can be used at temperatures between 121° and 140°C.



TRUE INDICATING
PRODUCTS

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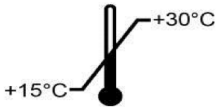
Instructions for Use

ISBP-01 is intended for flexographic printing onto paper, Tyvek® or film-based substrates. Steam exposure of printed ink will transition from blue to pink. Before use, pour all of Part B into Part A and mix for a minimum of 2 minutes until ink is a uniform blue color. Once the two parts are mixed together, the ink has a shelf life of 48 hours. Discard any unused ink after 48 hours because the blue color will begin to change from its initial shade of blue to a different shade.

The shade of initial and signal color will depend on the thickness of ink printed, the substrate onto which it is printed and the exposure conditions. When printing, water can be added up to 5% weight to thin the ink or to slow down drying if necessary. Water-based defoaming agents can be used during printing if foam is generated.

Colors shown are examples of actual printed ink using a 165 lpi Anilox roller and Tyvek®. Signal or end point color will vary due to printing conditions and exposure variables.

Initial Color	Signal Color
	

Storage and Shelf Life	
Shelf Life	5 months from date of manufacture
	15°C to 30°C (Protect from heat sources)
	Keep away from sterilant and other chemical agents. Do not reuse ink! Discard all remaining ink. Up to 5% by weight of water or ether can be added to the ink to decrease dry time.
	20% to 80% Relative Humidity



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The header features a black background with several overlapping, glowing circles in various colors (red, orange, yellow, green, blue, purple) arranged in a grid-like pattern. The text "Technical Data Sheet" is written in a large, white, sans-serif font across the middle of the circles.

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Disposal

Dispose in accordance with all federal, state, provincial, and local regulations. This material does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.



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