



**Steam Indicator Ink for Flexography Printing Processes**

**REF** ISPN-01

True Indicating's Steam Ink, Product Code ISPN-01, is a flexographic ink formulation used to monitor exposure to steam (moist heat) conditions. The ink is a water based formula which contains no heavy metals or other harmful materials and has low VOC's.

<b>Physical Properties</b>	
Process	Steam
Ink Carrier	Water
Packaging	HDPE or equivalent containers
pH	8.0 – 10.0
Viscosity Zahn Cup # 2	15 - 25 seconds
Ink Appearance	Thick pink liquid
Printed Indicator Color	Initial Color: Pink Signal Color: Dark
Anilox Roller	165 – 85 lpi
Flexographic Line Speed	≥150 ft./min.

<b>Intended Use</b>	
Indicator Ink is intended for manufacture of steam Process and Multi-Critical Variable 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 when exposed per the conditions outlined below.	
Type 1 Process Indicator	121°C for 10 minutes 134°C for 3.5 minutes
Printed Indicators manufactured with ink ISPN-01 can be used at temperatures between 121° and 140°C.	



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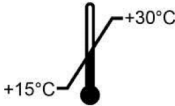


# Technical Data Sheet

## Instructions for Use

ISPN-01 is intended for flexographic printing onto paper (uncoated preferred) substrates. Steam exposure of printed ink will transition from pink to dark. 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.

Colors shown are examples of actual printed ink using a 85 lpi Anilox roller and paper. Signal or end point color will vary due to printing conditions and exposure variables.

Initial Color	Signal Color
	

Storage and Shelf Life	
<b>Shelf Life</b>	6 months from date of manufacture
	15°C to 30°C (Protect from heat sources)
	Keep away from sterilant and other chemical agents. <b>Do not reuse ink!</b> 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

## 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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