Steam Indicator Ink for Screen Printing Processes

REF ISBP-02

True Indicating's Steam Ink, Product Code ISPB-02, is a silk screen ink formulation used to monitor exposure to steam (moist heat) conditions. The ink is a water-based formula with low VOC's.

Physical Properties	
Process	Steam
Ink Carrier	Water
Packaging	HDPE or equivalent containers
pH	7.5 – 9.5
Brookfield Viscosity – LV Spindle #3	At 10 rpm = 5,000 – 8,000 cps
Ink Appearance	Thick blue liquid
Printed Indicator Color	Initial Color: Blue Signal Color: Pink

Intended Use	
Indicator Ink is intended for manufacture of Steam Process, Specific Tests, Multi-Critical Variable, Integrating or Emulating Indicators. The Indicators are intended for use in distinguishing processed from unprocessed goods, use in specific test procedures as defined by relevant standards including ISO 11140-3. 11140-4 and ISO 11140-5, to indicate exposure to a sterilization process at a stated value (SV) or to react to all critical process variables in equivalence to requirements in ISO 11138-3. Validation of Indicators and their performance is at the discretion of the manufacturer.	
Type 1 Process Indicator	121°C for 10 minutes 134ºC for 3.5 minutes
Type 1 Indicators Ink can be used at temperatures between 121º for exposure greater than 10 minutes up to 140°C. Evaluation of the Indicators at the temperature and timeframe outlined are conducted per ISO 11140-1:2014.	
Type 2 Indicators	121°C for 15 minutes 134ºC for 3.5 minutes
Type 2 Indicators can be used at alternate temperatures and timeframes. Evaluation of the Indicators at the temperature and timeframes outlined are conducted per ISO 11140-3, 11140-4 and 11140-5.	

Instructions for Use

TRUE INDICATING PRODUCTS

True Indicating, LLC
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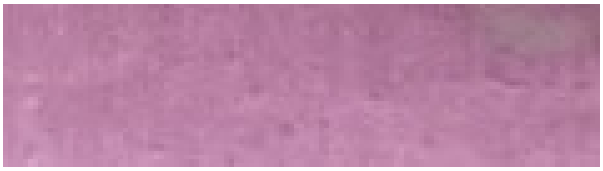
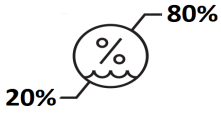
www.TrueIndicating.com (coming soon)

ISPB-02 is intended for screen printing onto either paper, Tyvek® or film based substrates. A common mesh screen size to use as a point of reference is 200. Drying times will vary based on selection of screen size. Up to 5% by weight of water or ether can be added to the ink to adjust dry time as needed.

Steam exposure of printed ink will transition from blue to pink. The shade of initial and signal color will depend on the thickness of ink printed.

Colors shown are examples of actual printed ink. Signal or end point color will vary due to printing conditions and exposure variables.

Initial Color	Signal Color
	

Storage and Shelf Life	
Shelf Life	3 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.
	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 CRF 261.

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