

Technical Data Sheet

Ethylene Oxide (EO) Indicator Ink for Screen Printing Processes



IERY-02

True Indicating's EO Ink, Product Code IERY-02, is a silk screen ink formulation used to monitor exposure to EO conditions. The ink is a water based formula which contains no heavy metals or other harmful materials and has low VOC's.

Physical Properties

Process	Ethylene Oxide (EO)	
Ink Carrier	Water	
Packaging	HDPE or equivalent containers	
pH	8.0 – 10.0	
Brookfield Viscosity – LV Spindle #3	At 10 rpm = 5,000 – 8,000 cps	
Ink Appearance	Thick red liquid	
Printed Indicator Color	Initial Color: Red	Signal Color: Yellow

Intended Use

Indicator Ink is intended for manufacture of EO Process, Multi-Critical Variable, Integrating or Emulating Indicators. The Indicators are intended for use in distinguishing processed from unprocessed goods, 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 11138-2. Validation of Indicators and their performance is at the discretion of the manufacturer.

Type 1 Process Indicator	600 ± 30 mg/L at 54°C and 60m±m10% Relative Humidity
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Printed Indicators manufactured with ink IERY-02 can be used at temperatures between 30° and 80°C.



TRUE INDICATING
PRODUCTS

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Instructions for Use

IERY-02 is intended for screen printing onto paper, Tyvek® or film based substrates. A common mesh screen size to use as a point of reference is 215. 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.

EO exposure of printed ink will transition from red to yellow. 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 CFR 261.



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