



Ethylene Oxide (EO) or Vaporized Hydrogen Peroxide/Plasma (VH₂O₂) Indicator Ink for Flexography Printing Processes



IPVP-01

True Indicating's EO or VH₂O₂ Ink, Product Code IPVP-01, is a flexographic ink formulation used to monitor exposure either to EO or VH₂O₂ 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) and/or Vaporized Hydrogen Peroxide VH ₂ O ₂ |
| 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: Purple Signal Color: Pink |
| Anilox Roller | 200 – 100 lpi |
| Flexographic Line Speed | ≥150 ft./min. |

| Intended Use | |
|--|---|
| Indicator Ink is intended for manufacture of EO and/or VH ₂ O ₂ 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 (EO only), Tyvek® or Film when exposed per the conditions outlined below. | |
| Type 1 Process Indicator | 2.3 mg/L VH ₂ O ₂ at 50°C for 6 minutes or 600±30 mg/L EO at 54°C and 60±10% Relative Humidity (RH) |



TRUE INDICATING
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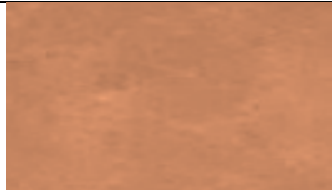

Technical Data Sheet




Printed Indicators manufactured with ink IPVP-01 can be used at temperatures between 30° and 80°C.

Instructions for Use

IPVP-01 is intended for flexographic printing onto paper (EO only), Tyvek® or film based substrates. EO or VH_2O_2 exposure of printed ink will transition from purple to brown/pink. 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 165 lpi Anilox roller and Tyvek®. Signal or end point color will vary due to printing conditions and exposure variables.

| Initial Color | Signal Color | |
|--|---|--|
| | EO | VH_2O_2 |
|  |  |  |

| Storage and Shelf Life | |
|---|--|
| Shelf Life | 4 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 |

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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