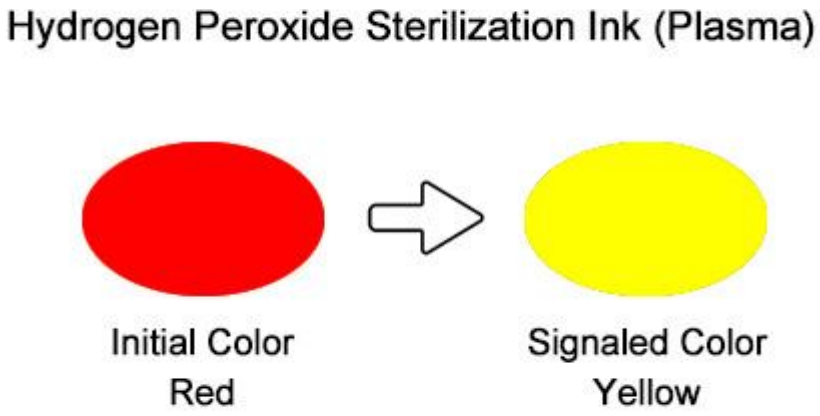
Plasma (Hydrogen Peroxide) Sterilization Indicating Ink

Color Change: Red to Yellow

Initial Color: Red

Signaled Color: Yellow



Application Guidelines:

Printing Method: Flexographic

Anilox Roll Line Count: 250-300 lines/inch

Printing Speed: 40-120 meters/minute

Drying Temperature: 45-60°C

Thinner: Anhydrous Ethanol or Butyl Glycol Ether

Dilution Ratio:5%

Printing Substrate: Medical Grade Dialysis Paper

Product Description:

Plasma sterilization indicating ink is formulated with thermosensitive chemicals, color developers, and auxiliary materials. Printed products, when subjected to a hydrogen peroxide sterilization process with a concentration of 2.30 mg/L, a test temperature of 50°C, and a sterilization time of 6 minutes, will change color to yellow. This color change indicates that the sterilization requirements have been met. When used under the recommended sterilization conditions for vaporized hydrogen peroxide (plasma) systems, it provides a distinct color change signal.

Precautions:

1. Stir Thoroughly: Stir the ink well after opening the container before use.
2. Recommended Line Count: Use the recommended anilox roll line count to ensure adequate ink transfer. Insufficient ink coverage may affect the color change effect.
3. Verify Sterilization Effect: Conduct sterilization tests on printed samples and confirm the color change effect before starting full-scale production.
4. Solvent Management & Dilution: Environmental conditions in the

workshop affect solvent evaporation rates during printing. Add thinner based on the printing results. Adding excessive thinner makes the ink too thin, reducing ink coverage and potentially affecting color change. Ink that is too dry may cause poor printing quality, clogging, and insufficient ink transfer.

5. Pilot Run: Conduct a pilot run and sample test before mass production to confirm compliance with requirements.