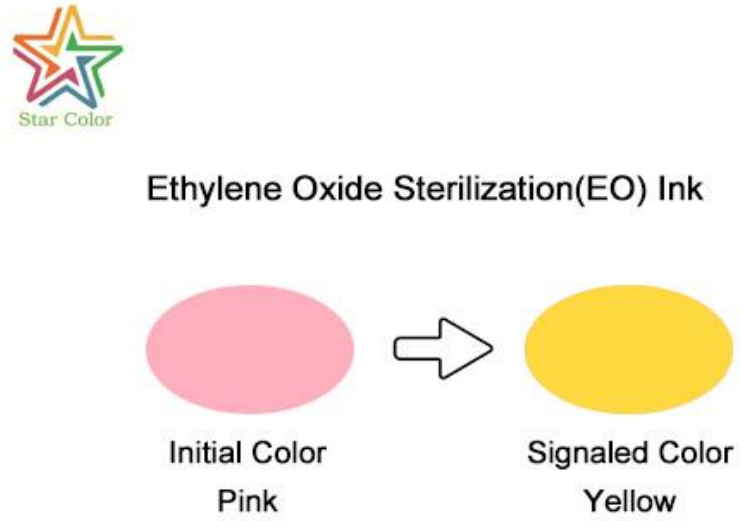
TDS of Ethylene Oxide(EO) Sterilization Indicating Ink

Color Change: Pink to Yellow

Initial Color: Pink

Signaled Color: Yellow



Application Guidelines:

Printing Method: Flexographic

Recommend Anilox: 200-350 lines/inch

Printing Speed: 40-120 meters/minute

Drying Temperature: 45-60°C

Diluent: Purified Water

Dilution Ratio: 5%

Printing Substrate: Medical Grade Dialysis Paper

Color Change Conditions:

When used under recommended sterilization conditions, the color change complies with ISO 11140-1:2005 specifications. Complete color development requires the presence of ethylene oxide gas, moisture, and temperature. Increasing any component's concentration will accelerate the color signal development.

After sterilization under the following conditions:

- Ethylene Oxide Concentration: 600 mg/L
- Temperature: 54°C
- Relative Humidity: 60% RH
- Time: 3-6 hours

Most properly printed indicators will show a definitive color change signal.

Precautions:

1. Stir the ink thoroughly after opening before use.

2. Use the recommended screen ruling to ensure adequate ink application. Insufficient ink coverage may affect color change performance.

3. Conduct sterilization tests on printed samples to confirm color transition effectiveness before full-scale production.

4. Adjust diluent addition based on printing conditions. Excessive

diluent reduces ink viscosity, leading to insufficient coverage. Overly thick ink may cause plate clogging and uneven printing.

5. Perform sampling trials before mass production. The manufacturer assumes no liability for issues caused by improper storage or usage.

Note: Environmental factors (e.g., workshop humidity/temperature) may influence solvent evaporation rates. Monitor and adjust diluent accordingly during printing.