

# Instructions for Use

## Chemical Indicator Type 4 +5 for Ethylene Oxide according to EN ISO 11140-1

Art.-No.	Quantity [pc]	Product Code	Product Description	Color Change	EN ISO 11140-1	Stated Value
212-360	3,200	C-E-P-4-SV3	Multivariable Indicator (internal indicator) 65 x 14 mm	Blue → Green	Type 4	600 mg/L EO, 54 °C, 20 min, RH > 30 %
212-224	400	C-E-P-5	Integrating Indicator 65 x 14 mm	Yellow → Blue	Type 5	600 mg/L EO, 54 °C, 50 min, RH = 60 %
212-226	3,200					

### Application

The GKE type 4 and type 5 indicators are used in packages to monitor ethylene oxide sterilization processes.

### Product Description

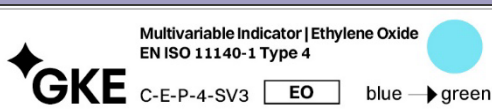
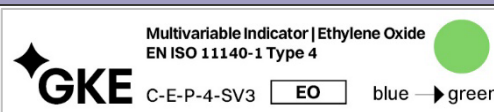
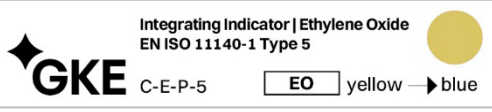
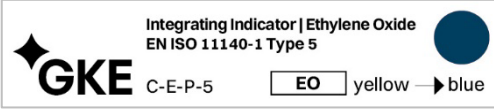
The type 4 indicators consist of a carrier made of paper and the type 5 made of plastic. Both contain an indicator dot that fulfils the different requirements and are self-adhesive for documentation. The chemical substances of the indicator are protected to bleed by a polymer binder coating and therefore, do not release toxic substances.

### Performance characteristics

Type 4 indicators check more than two but not all critical variables, while type 5 indicators monitor all critical variables. Both indicators are in accordance with EN ISO 11140-1.

### Handling Information

1. Take out indicator from the sheet.
2. Place indicator at the most difficult location inside of the package.
3. Run the sterilization process.
4. After completion remove the indicator and check the result. Use the reference colour chart for interpretation.

Art.-No.	Indicator starting color	Indicator final color
212-360	 <p>Multivariable Indicator   Ethylene Oxide EN ISO 11140-1 Type 4</p> <p>GKE C-E-P-4-SV3 EO blue → green</p>	 <p>Multivariable Indicator   Ethylene Oxide EN ISO 11140-1 Type 4</p> <p>GKE C-E-P-4-SV3 EO blue → green</p>
212-224 212-226	 <p>Integrating Indicator   Ethylene Oxide EN ISO 11140-1 Type 5</p> <p>GKE C-E-P-5 EO yellow → blue</p>	 <p>Integrating Indicator   Ethylene Oxide EN ISO 11140-1 Type 5</p> <p>GKE C-E-P-5 EO yellow → blue</p>

5. The indicator is self-adhesive and shall be adhered in the documentation sheet.

### Storage and Disposal

1. Store all indicators in the original package and away from sterilizer or sterilizing agent. Ideally, keep in a separate room.
2. Store indicators always between 5-30 °C or 41 - 86°F and a humidity of 5 - 80% RH.
3. The vapour of chemicals, especially hydrogen peroxide, may change the indicator before or after sterilization. Therefore, do not store them together with other chemicals.
4. The indicators should not be used after expiry date. They may be disposed with normal waste.

For further technical details please contact your local dealer or Mesa Germany directly. We will assist you with any technical questions. Visit our website [www.gke-healthcare.com](http://www.gke-healthcare.com) for more information.

760-042 ED V04 05-2025