**Commercial name**

**ColdChain Complete Temperature Indicators**

**Company identification**

Authorized dealer: PROPAGROUP S.p.A.

Address: Via Genova, 5/B – 10098 RIVOLI (Turin) - Italy

www.propagroup.com - export@propagroup.com

Ph. +39 011 9507788 Fax +39 011 9507808

1. **Description and application**

ColdChain Complete Temperature Indicators provide monitoring of temperature sensitive products. It is a single use visual indicator that provides accurate and irreversible evidence of a cold and hot temperature excursion beyond the indicated ranges.

It is available in two formats: the ColdChain Complete standard and ColdChain Complete XS.

1. **Technical characteristics**

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| **Key Specifications** | |
| Temperature Accuracy | ±1°C / ±2°F for both freeze and warm indicators |
| Storage Condition | Store in dark environment between 15°C - 25°C (59°F - 77°F), 35-55% RH |
| Shelf Life | 1 year |
| Arming Method | Freeze indicator: None  Warm indicator: Pull-tab |
| Mounting Method | ColdChain Complete: Place indicator as close to the product being monitored as possible.  ColdChain Complete XS: Adhere or place indicator as close to product being monitored as possible. |

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| **ColdChain Complete** | | | | | |
| Part Number | Temperature Range | Run Out Time | | | Freeze Activation |
| Freeze & 3 Window Warm Indicator Card | | Brief | Moderate | Prolonged | Within |
| 27178 | 2°C - 8°C / 36°F - 46°F | 2 Hours | 12 Hours | 48 Hours | 90 Minutes |
| 27179 | 0°C - 8°C / 32°F - 46°F | 2 Hours | 12 Hours | 48 Hours | 60 Minutes |

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| --- | --- | --- | --- | --- | --- |
| Freeze & 3 Window Warm Indicator Card | | Brief | Moderate | Prolonged | Within |
| 27180 | 0°C - 25°C / 32°F - 77°F | - | - | 8 Hours | 60 Minutes |
| 27182 | 2°C - 25°C / 36°F - 77°F | - | - | 8 Hours | 90 Minutes |
| 27183 | 0°C - 8°C / 32°F - 46°F | - | - | 8 Hours | 60 Minutes |
| 27184 | 2°C - 8°C / 36°F - 46°F | - | - | 8 Hours | 90 Minutes |

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| **ColdChain Complete XS** | | | | | |
| Part Number | Temperature Range | Run Out Time | | | Freeze Activation |
| Freeze & 3 Window Warm Indicator Card | | Brief | Moderate | Prolonged | Entro |
| CCC XS 2-8-8 | 2°C - 8°C / 36°F - 46°F | - | - | 8 Hours | 90 Minutes |
| CCC XS 0-8-8 | 0°C - 8°C / 32°F - 46°F | - | - | 8 Hours | 60 Minutes |
| CCC XS 2-8-48 | 2°C - 8°C / 36°F - 46°F | - | - | 48 Hours | 90 Minutes |
| CCC XS 0-8-48 | 0°C - 8°C / 32°F - 46°F | - | - | 48 Hours | 60 Minutes |
| CCC XS 0-25-8 | 0°C - 25°C / 32°F - 77°F | - | - | 8 Hours | 60 Minutes |
| CCC XS 2-25-8 | 2°C - 25°C / 36°F - 77°F | - | - | 8 Hours | 90 Minutes |



1. **Production and Quality**

PROPAGROUP is UNI EN ISO9001 / ISO14001 certified and produces in accordance with the requirements of the main European and international standards in the sector.

The values indicated here are the result of standardised lab tests and meant only as an indication to help select and use the products. The user is responsible for ensuring the suitability and completeness of such information in relation to how the product is to be used.

**Written by:** Technical Management

**Revised by:** Quality Department

**Approved by:** Management