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Dwyer KS-0207

Dwyer Irreversible Temperature Labels User Manual

Model: KS-0207

1. Introduction

The Dwyer KS-0207 Irreversible Temperature Labels are designed to provide a permanent record of temperature exposure. These self-adhesive labels feature multiple temperature-sensitive indicators that change color irreversibly when their specified temperature threshold is met or exceeded. This allows for easy monitoring and verification of temperature conditions during storage, transit, or operation of temperature-sensitive items.

This specific model, KS-0207, is a 6-level horizontal mini label with a temperature range of 390 to 4500F (199 to 2320C), displaying both Fahrenheit and Celsius readings. Each pack contains 10 labels.

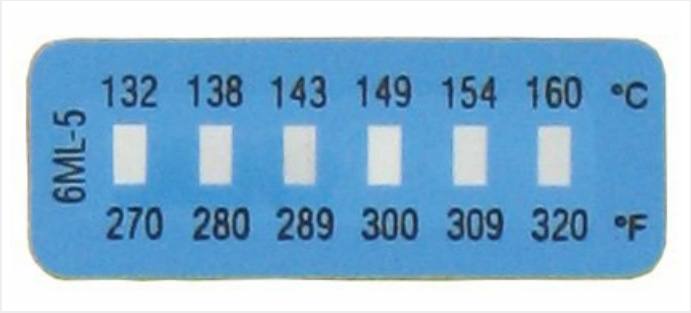

Figure 1: Example of a Dwyer Irreversible Temperature Label. Note: The temperature range shown in this example image (132-1600C / 270-3200F) is illustrative and may differ from the specific KS-0207 model's range (390-4500F / 199-2320C).

2. Setup

Before applying the temperature label, ensure the surface is clean, dry, and free from oil, grease, or dust. A clean surface ensures optimal adhesion and accurate temperature sensing.

1. **Surface Preparation:** Clean the application surface thoroughly. For best results, use an appropriate cleaner that leaves no residue.
2. **Label Handling:** Handle the labels by their edges to avoid touching the temperature-sensitive indicators, which could affect their accuracy or appearance.
3. **Storage:** Store unused labels in their original packaging in a cool, dry place away from direct sunlight and extreme temperatures to preserve their integrity.

3. Operating Instructions

The Dwyer KS-0207 labels are designed for straightforward application and reading.

1. **Application:** Carefully peel the label from its backing and firmly press it onto the prepared surface. Ensure there are no air bubbles trapped underneath the label, as this can affect thermal transfer.
2. **Temperature Monitoring:** Once applied, the label will begin monitoring the surface temperature. The white temperature-sensitive windows on the label correspond to specific temperature points (e.g., 3900F, 4000F, 4100F, 4200F, 4300F, 4500F for the KS-0207 model).
3. **Reading the Label:** When the temperature at a specific point on the label reaches or exceeds its indicated threshold, the corresponding white window will permanently change color, typically turning black. This change is irreversible, providing a clear record of the maximum temperature attained. Read the highest temperature point that has changed color to determine the peak temperature exposure.

The labels are resistant to oil, water, and steam, making them suitable for various environments.

4. Maintenance

Dwyer Irreversible Temperature Labels require minimal maintenance. Proper storage is crucial for their longevity and accuracy before use.

- **Storage Conditions:** Store labels in a cool, dry environment, ideally between 400F and 800F (40C and 270C), and away from direct sunlight or sources of heat.
- **Shelf Life:** Adhere to the manufacturer's recommended shelf life, typically indicated on the packaging, to ensure the accuracy of the labels.
- **Post-Use:** Once a label has indicated a temperature change, it serves as a permanent record. No further maintenance is required for the used label.

5. Troubleshooting

Most issues with temperature labels relate to application or environmental factors.

- **Label Not Changing Color:**
  - Verify that the actual temperature reached or exceeded the label's indicated threshold.
  - Ensure the label was applied to a clean, dry surface for proper thermal contact.
  - Check the label's shelf life; expired labels may not function correctly.
- **Inaccurate Reading:**
  - Ensure the label is placed in a location that accurately reflects the temperature of the item being monitored, avoiding drafts or localized hot/cold spots.
  - Confirm the label's temperature range is appropriate for the expected temperature conditions.
- **Poor Adhesion:**
  - Re-clean the surface thoroughly before application.
  - Ensure the surface temperature is within the recommended application range for the adhesive.

6. Specifications

Feature	Detail
Model	KS-0207
Temperature Range	390 to 4500F (199 to 2320C)
Temperature Levels	6 Level Horizontal
Units Displayed	0F and 0C
Irreversibility	Yes, permanent color change
Adhesive Type	Self-adhesive
Resistance	Oil, water, and steam resistant
Quantity per Pack	10 Labels
Item Weight	2.4 ounces (for the pack)
Manufacturer	Dwyer

7. Warranty and Support

Specific warranty details for Dwyer Irreversible Temperature Labels are typically provided with the product packaging or can be obtained directly from the manufacturer. For technical support, product inquiries, or warranty claims, please contact Dwyer Instruments, Inc. through their official website or customer service channels.

Always refer to the latest information provided by the manufacturer for the most accurate and up-to-date support details.

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