



**DOW**

## DOWFROST™ LC Heat Transfer Fluid Storage Guide

Proper storage of drums and totes containing DOWFROST™ LC 25 and DOWFROST™ LC 55 Heat Transfer Fluid is essential in order to maintain product integrity, prevent contamination and preserve both labeling and dye quality. Adhering to the storage practices outlined below helps ensure the fluid remains effective for heat transfer, leak detection and long-term system reliability.

### Documentation

Upon receipt of packaged DOWFROST™ LC Heat Transfer Fluid products (e.g., totes, drums), it is considered best practice to document key product information, including the date of receipt and batch number(s). This information should be recorded in a centralized and accessible tracking system to support inventory management, product traceability and troubleshooting or root cause analysis, if necessary.

### Store Product Indoors

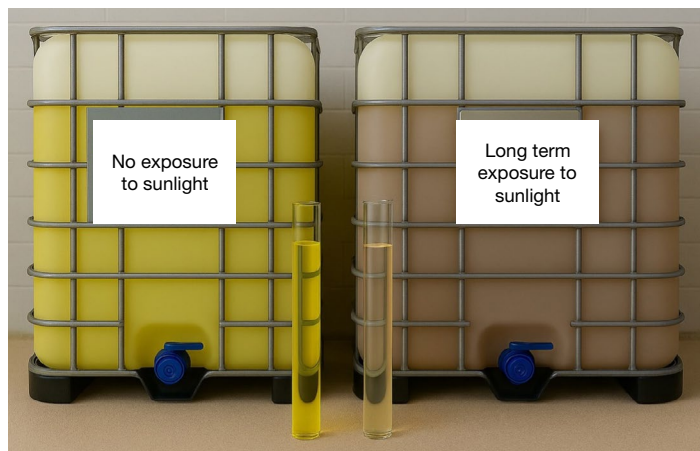
All packaged DOWFROST™ LC Heat Transfer Fluid should be stored in a clean, enclosed facility (e.g. warehouse) to protect against environmental exposure, including:

- Direct sunlight
- Rain or moisture
- Temperature Extremes
- Debris (e.g. dust, dirt, animal droppings)

The storage area should be dry, well-ventilated and free from excessive dust or contaminants that could accumulate on containers and compromise cleanliness during opening. Indoor storage also helps protect drum and tote labels from fading, peeling or becoming illegible by avoiding exposure to sunlight, water and harsh conditions. This is especially important as labels contain important information needed for tracking, identification and compliance purposes (e.g. product name, production date, batch number). If short-term outdoor storage is unavoidable (e.g. less than 1 week), it is best practice to store containers under protective covering.

### Avoid Storage in Direct Sunlight

DOWFROST™ LC Heat Transfer Fluid contains a fluorescent yellow dye designed to aid in material identification and enhance leak detection under ultraviolet (UV) light. However, this dye is susceptible to photodegradation under prolonged UV exposure which can diminish its fluorescence and overall effectiveness. To maintain optimal product performance and preserve the integrity of the dye, it is essential to store the fluid away from direct sunlight and sources of UV radiation. Additionally, the fluid should be kept at moderate temperatures, as extended exposure to elevated heat may accelerate dye degradation. Failure to follow these storage guidelines may result in fading of the dye, reducing its visibility under UV inspection and impairing leak detection capabilities. It may also compromise visual identification, complicating routine maintenance and troubleshooting efforts.



Images: (L) Properly stored fluid; (R) Fluid stored in direct sunlight

*Note: Appearance of fluid through exterior of tote may not be indicative of actual color, as seen above.*

## Temperature Considerations

DOWFROST™ LC Heat Transfer Fluid should be stored at ambient temperatures between -7°C to 50°C (19°F to 122°F). Maintaining storage conditions within this recommended range helps preserve the fluid's thermal performance and dye functionality, ensuring reliable heat transfer and effective leak detection throughout its lifetime.

## Proper Stacking and Placement

To ensure safe storage and preserve container integrity, proper stacking and placement procedures must be followed. Totes may be stacked up to two units high, provided they are placed on level, stable surfaces capable of supporting the combined weight. Always confirm that the bottom tote is rated for stacking and ensure the upper unit is properly aligned to prevent shifting or tipping. Drums should be stored securely on pallets with no more than two layers stacked. Maintain clear, unobstructed aiseways to allow for safe and efficient access for forklift or pallet jacks. All container labels must remain visible and accessible for inspection, inventory management and handling. Following these best practices minimizes the risk of spills, physical damage and workplace injuries while supporting efficient material handling and compliance with safety standards.

## Handling Considerations

Before opening, all containers of DOWFROST™ LC Heat Transfer Fluid should be carefully inspected for any signs of physical damage or compromised seal integrity to ensure the product remains uncontaminated and of optimal quality. Prior to accessing the fluid, clean the tops of drums or totes thoroughly to remove dust, debris, or other potential contaminants. If the full contents are not used, reseal the container securely to prevent contamination or evaporation. For effective inventory management and traceability, clearly label the container with the date of opening in a visible location. As a best practice, retain a representative sample (approximately 4–12 oz.) from each batch or container on-site. These samples can be critical for troubleshooting, verifying product quality or conducting comparative analysis in the event of performance concerns during system operation.

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