

MILES® DOWFROST™ HD HEAT TRANSFER FLUID, DYED

Inhibited Propylene Glycol

Product Data Sheet**PRODUCT DESCRIPTION**

Miles® DOWFROST™ HD Heat Transfer Fluid is a formulation of 94.0 percent propylene glycol and a specially designed package of industrial corrosion inhibitors. The fluid is dyed fluorescent yellow to aid in leak detection. Solutions in water provide freeze protection to below -50°C (-60°F) and burst protection to below -73°C (-100°F).

DOWFROST HD is commonly utilized in single-fluid process heating and cooling, closed-loop, and water-based HVAC systems where propylene glycol solutions are preferred or required.

Chemical Name: Inhibited Propylene Glycol Heat Transfer Fluid

Base Fluid CAS Number: 57-55-6 (propylene glycol)

Composition: 94% propylene glycol / 6% performance additives

TYPICAL APPLICATIONS

Miles® DOWFROST HD is suitable for use in applications including:

- Single-fluid process heating and cooling
- Closed-loop HVAC systems
- Water-based HVAC applications where propylene glycol is preferred or required
- Freeze/burst protection for process piping and equipment

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Composition	94% propylene glycol / 6% performance additives
Color	Fluorescent yellow
Specific Gravity @ 15/15°C (60/60°F)	1.053 – 1.063
pH of Solution (50% glycol)	9.5 – 10.5
Reserve Alkalinity (min.)	15.0 mL
Recommended Use Temperature Range	-45°C to 160°C (-50°F to 325°F)
Freeze Protection (max. concentration)	Below -50°C (-60°F)
Burst Protection (max. concentration)	Below -73°C (-100°F)

Representative freeze/boiling data (at listed % DOWFROST HD by volume):

Vol. % DOWFROST HD	Freezing Point	Boiling Point
20%	-7.1°C (19.2°F)	100.6°C (213°F)
40%	-21.1°C (-6.0°F)	103.9°C (219°F)
60%	-51.1°C (-59.9°F)	107.2°C (225°F)
94% (max.)	Below -50°C (-60°F)	154.4°C (310°F)

The values shown are typical physical properties and are not intended to constitute product specifications. Full freeze-point and viscosity tables by concentration and temperature are available from published Engineering and Operating Guide.

PRODUCT FEATURES

- Formulated with USP-grade base propylene glycol
- Industrial corrosion inhibitor package
- Fluorescent yellow dye for leak detection
- Wide operating temperature range

- Suitable for closed-loop and HVAC heat-transfer systems

STORAGE & HANDLING

Store in tightly closed containers in a cool, dry area, protected from extreme temperatures and direct sunlight. Inhibitor levels should be adjusted for solutions of less than 20% glycol; contact Miles Lubricants LLC for guidance on specific dilution cases.

Consult the applicable Miles® Safety Data Sheet (SDS) before handling, storing, or using this product.

AVAILABLE PACKAGING

- 55-Gallon Drums
- Totes / IBCs
- Bulk

Packaging availability may vary. Contact Miles Lubricants LLC for current packaging and minimum-order requirements.

IMPORTANT

Miles® DOWFROST HD is intended for industrial heat-transfer applications, not for direct food contact or potable water systems unless the specific product supplied is independently certified for that use.

PRODUCT INFORMATION

Miles Lubricants LLC

Industrial Lubricants, Chemicals & Specialty Fluids

Product: Miles® DOWFROST HD Heat Transfer Fluid, Dyed (55 Gal Drum)

Base CAS No.: 57-55-6

For product availability, technical information, and Safety Data Sheets, contact Miles Lubricants LLC.

DISCLAIMER

The information and typical properties contained in this Product Data Sheet are provided for general informational purposes and are believed to be accurate at the time of publication, based on published technical literature for DOWFROST HD Heat Transfer Fluid. Typical values are not specifications or guaranteed properties. Product users are responsible for determining the suitability, compatibility, safety, and regulatory compliance of the product for their particular application. Please consult the applicable Safety Data Sheet before use.