

MILES® DOWTHERM™ SR-1 HEAT TRANSFER FLUID, DYED

Inhibited Ethylene Glycol

Product Data Sheet**PRODUCT DESCRIPTION**

Miles® DOWTHERM™ SR-1 Fluid is a formulation of 95.5 weight percent ethylene glycol and a specially designed package of industrial corrosion inhibitors. The fluid is dyed fluorescent pink for leak detection purposes. Solutions in water provide freeze protection to below -50°C (-60°F) and burst protection to below -73°C (-100°F).

DOWTHERM SR-1 is commonly utilized in closed-loop, water-based HVAC systems, process heating and cooling, and food-industry applications within its recommended temperature range.

Chemical Name: Inhibited Ethylene Glycol Heat Transfer Fluid

Base Fluid CAS Number: 107-21-1 (ethylene glycol)

Composition: 95.5% ethylene glycol / 4.5% performance additives

TYPICAL APPLICATIONS

Miles® DOWTHERM SR-1 is suitable for use in applications including:

- Closed-loop, water-based HVAC systems
- Process heating and cooling
- Food industry applications within the recommended temperature range
- Freeze/burst protection for process piping and equipment

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Composition	95.5% ethylene glycol / 4.5% performance additives
Color	Fluorescent pink
Specific Gravity @ 25/25°C (77/77°F)	1.1250 – 1.1350
pH of Solution (50% glycol)	9.0 – 10.5
Reserve Alkalinity (min.)	12.0 mL
Recommended Use Temperature Range	-50°C to 120°C (-60°F to 250°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 % DOWTHERM SR-1 by volume):

Vol. % DOWTHERM SR-1	Freezing Point	Boiling Point
20%	-7.8°C (17.9°F)	102.2°C (216°F)
40%	-22.3°C (-8.1°F)	105.6°C (222°F)
60%	-48.3°C (-54.9°F)	110.0°C (230°F)
95% (max.)	Below -50°C (-60°F)	158.3°C (317°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 technical literature.

PRODUCT FEATURES

- High ethylene glycol content for efficient heat transfer
- Industrial corrosion inhibitor package
- Fluorescent pink dye for leak detection
- Wide operating temperature range

- Suitable for closed-loop and process HVAC 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 30% 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® DOWTHERM SR-1 is intended for industrial heat-transfer applications. Ethylene glycol-based fluids can be harmful or fatal if ingested; this product should not be represented or used in potable water systems or direct food-contact applications unless the specific product supplied is independently certified for that use.

PRODUCT INFORMATION

Miles Lubricants LLC

Industrial Lubricants, Chemicals & Specialty Fluids

Product: Miles® DOWTHERM SR-1 Heat Transfer Fluid, Dyed (55 Gal Drum)

Base CAS No.: 107-21-1

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 DOWTHERM SR-1 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.