



# PROTOCOL<sup>®</sup> HT-100

HIGH TEMPERATURE / HEAVY-DUTY

## Product Description

PROTOCOL HT is an ethylene glycol based heat transfer fluid developed for higher temperature, heavy-duty applications.

PROTOCOL HT fluids have an operating range from -60°F to 350°F, depending on the concentration. HT coolants contain a blend of organic and inorganic inhibitors specifically formulated to keep mixed-metal systems free from corrosion without fouling critical heat exchange surfaces.

PROTOCOL HT is available as concentrate or premixed with deionized water to meet your exact specification for freeze, burst, and boiling protection. To ensure optimal corrosion protection and heat transfer efficiency, we recommend purchasing this product in a premixed version.

PROTOCOL HT fluid has little or no negative effect on seals, elastomers, or other materials commonly found in most industrial systems. However, this product should not be used in systems containing galvanized steel unless etching of the zinc, or magnesium-based coating, is acceptable.

PROTOCOL HT is compatible with all nationally recognized industrially inhibited coolants containing ethylene glycol and can be safely commingled without compromising the integrity of either fluid. If desired, HT blends can be color coordinated at no additional charge.

*"Performance products of unparalleled quality and value" sm*

## Technical Data

### Typical composition: HT-100, v%

Ethylene Glycol	≥ 93
Inhibitors	≥ 6
Color	Bright Yellow
Specific Gravity	~ 1.125 - 1.130
pH, 50% solution	~ 8.5 - 10.5
Reserve Alkalinity, 100%	~ 15.0 min

### Typical properties of HT-50 v% solutions:

BP @ 760 mm Hg (50%)	~ 225 °F
Flash Point (<90%)	None
VP mm Hg (50% @ 68°F)	~ 13
Thermal Conductivity (50% @ 68°F)	~ 0.23
Specific Heat (50% @ 68°F)	~ 0.80
Viscosity (50% @ 68°F)	~ 3.37

### Typical physical properties of aqueous solutions:

Freeze Point (°F)	Volume %	Boiling Point (°F)
24	10	213
15	20	215
9	25	217
3	30	218
- 4	35	220
- 13	40	222
- 34	50	225