



# 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 and heavy-duty applications.

PROTOCOL HT fluids have an operating range from -60°F to 350°F depending on the concentration. This fluid contains 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 is achieved, we recommend purchasing our 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 coatings is acceptable.

PROTOCOL HT is compatible with all nationally recognized industrially inhibited coolants and can be safely commingled without comprising the integrity of either fluid. Our fluids can be color coordinated if so desired and 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