MAXTECH®
Heat Transfer Fluid

HTF-AL

MADE IN THE USA

Heat Transfer Fluid - Aluminum Safe

Propylene Glycol or Ethylene Glycol

Description

MAXTECH® HTF-AL is formulated with the latest organic acid technology to guarantee optimal heat transfer efficiency and corrosion protection in systems with aluminum heat exchangers. Blended with ASTM E1177, virgin propylene glycol or ethylene glycol base, MAXTECH® HTF-AL increases system performance and longevity while decreasing long-term maintenance costs.

MAXTECH® HTF-AL protects against freeze, burst, and corrosion in the following systems and applications:

HVAC systems, chillers and boilers / hydronic heating and cooling loops, process cooling and heating, ice rinks, data center cooling systems, geothermal pumps, snow melt systems, radiant heating systems, and more.

Benefits

+ Meets or exceeds ASTM D8039 - Standard specification for heat transfer fluid for HVAC systems
+ Meets or exceeds ASTM D8040 / ASTM D1384 - Multi-metals corrosion protection; ASTM D1881 foam control
+ Operating temperature of -50°F to 325°F
+ Scale inhibitors / dispersants prevent harmful deposits; foam control; hard water stability
+ Free from nitrites, amines, silcates, and borates; safe for all common non-metallic components
+ Dyed yellow (PG) or green (EG) for leak detection; dye color optional
+ Blended with deionized water
+ Available in bulk direct-connect into systems, totes, or drums

Typical Properties	Concentrate	40/60	30/70
Glycol, % wt PG/EG	96.0 / 96.0	40.0 / 40.0	30.0 / 30.0
Inhibitors + Water, % wt PG/EG	4.0 / 4.0	60.0 / 60.0	70.0 / 70.0
Boiling Point, °F, PG/EG	270 / 317	218 / 222	215 / 220
Freezing Point, °F, PG/EG	< -60 / -3.0	-2.4 / -9.8	10.4 / 5.4
Burst Point, °F, PG/EG	< -60 / < -60	-60 / -60	-10 / -15
Density g/mL 68°F, PG/EG	1.05 / 1.122	1.034 / 1.057	1.022 / 1.044
pH	***	7.5 - 9.5	7.5 - 9.5
Reserve Alkalinity, mL (min.)	>5.0	>1.5	>1.3
Color	Water white	Water white	Water white
Effects on Nonmetals	No adverse effect	No adverse effect	No adverse effect
Storage Ability	>1 years	>1 years	>1 years

*Inhibitor levels in glycols less than 25 - 30% may not provide adequate corrosion protection.

**Glycol concentrations less than 25% may be at risk for bacterial contamination.

***pH value most applicable with glycol and water blends