



FS Heat Transfer Fluid

Propylene Glycol, NSF Registered HT1

Description

MAXTECH[®] FS HTF is an NSF registered fluid acceptable for use as a heat transfer fluid where there is possibility of incidental food contact. It is formulated with inhibitor chemistry to guarantee optimal safety and heat transfer efficiency. Blended with ASTM E1177, virgin GRAS propylene glycol, MAXTECH[®] FS HTF increases system performance and longevity while decreasing long-term maintenance costs and risk.

MAXTECH[®] FS HTF protects against freeze, burst, and corrosion in the following systems and applications:

HVAC systems, food and drink refrigeration and process, 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

- + NSF Registration No. 168782 / Category Code: HT1, HT2
- + 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 -45°F to 250°F; up to 150°F in aluminum systems
- + Scale inhibitors / dispersants prevent harmful deposits; foam control; hard water stability
- + Safe for all common non-metallic components
- + Blended with ASTM D1193 deionized water
- + Available in bulk direct-connect into systems, totes, or drums

Typical Properties	Concentrate	40%	35%	30%	25%
Glycol, % wt	96.0 ¹	40.0	35.0	30.0	25.0
Inhibitors + Water, % wt	4.0 ²	60.0	65.0	70.0	75.0
Boiling Point, °F	270	218	216	215	213
Freezing Point, °F	< -60	-4.2	3.9	10.1	15.0
Burst Point, °F	< -60	-60	-33	-15	0
Density g/mL 68°F	1.060	1.051	1.046	1.040	1.027
pH	³	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0
Reserve Alkalinity, mL (min.)	>15	>6	>5	>4	>3
Color	Clear	Clear	Clear	Clear	Clear
Effects on Nonmetals	No adverse effect	No adverse effect	No adverse effect	No adverse effect	No adverse effect
Storage Ability	>1 years	>1 years	>1 years	>1 years	>1 years

¹ Glycol concentration typically a minimum of 96%

² Inhibitor typically a minimum of 4.0% but can be adjusted for custom specifications

³ pH value most applicable with glycol and water blends

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

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