



Product Bulletin

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HUBFROST CONCENTRATE WITH DYE

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DESCRIPTION

HUBFROST CONCENTRATE WITH DYE heat transfer fluid is an inhibited propylene glycol designed for use in hydronic systems. The inhibitor system is designed to protect metals commonly found in residential and commercial installations such as brass, copper, solder, steel, and cast iron. The HUBFROST CONCENTRATE WITH DYE formula also includes an orange dye, for leak detection, and antifoam to minimize foaming during service. The effectiveness of HUBFROST CONCENTRATE WITH DYE heat transfer fluid in preventing corrosion has been proven both in use and in extensive laboratory testing. Using HUBFROST CONCENTRATE WITH DYE in place of brine solutions or uninhibited glycol/water solutions lowers maintenance costs and improves heat transfer efficiency.

HUBFROST CONCENTRATE WITH DYE heat transfer fluid has been formulated with ingredients which are generally recognized as safe (GRAS) by the FDA for use as an aqueous heat transfer medium for closed primary and secondary refrigeration and cooling systems. Components in our formulation conform to the requirements of 21 CFR 184.1666; 21 CFR 182.6285; CFR 74.1705, 74.1706 & 74.2340 as applicable.

TYPICAL PROPERTIES

Color	Orange
Density, 60°F, lb/gal	8.75
Flash Point, TOC, °F	225°
pH, 33.33 volume %	9.50
Specific Gravity, 60/60 F	1.054
Reserve Alkalinity	12.0
Freeze Protection, F	
20% aqueous solution	+18
30% aqueous solution	+8
40% aqueous solution	-8
50% aqueous solution	-27

APPLICATIONS

Line Heater

HUBFROST CONCENTRATE WITH DYE heat transfer fluid is recommended for use in line heaters. A line heater circulates a heated fluid around a pipe to raise the temperature of the pipe contents in order to control reactions or ease pumping operations.

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Snow-Melting and Refrigeration Systems

HUBFROST CONCENTRATE WITH DYE heat transfer fluid is recommended for snow-melting systems for loading ramps, walkways, highways, and airfield runways, and as a coolant in ice rinks and air conditioning systems.

Combination Heating and Cooling Systems

HUBFROST CONCENTRATE WITH DYE heat transfer fluid is recommended in combination heating and cooling systems for large buildings. The excellent corrosion protection afforded by HUBFROST CONCENTRATE WITH DYE heat transfer fluid prolongs the life of the piping in these systems. HUBFROST CONCENTRATE WITH DYE heat transfer fluid is also excellent for solar energy collection systems.

Thermal Energy Storage Systems

HUBFROST CONCENTRATE WITH DYE heat transfer fluid is recommended for use in all thermal energy storage systems. The specially formulated inhibitor package is designed to protect common system metals from corrosion at glycol concentrations as low as 20%.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.