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WINTREX® HDR Product Data Sheet

Inhibited Ethylene Glycol Based Heat Transfer Fluid

WINTREX® HDR heat transfer fluid is an inhibited ethylene glycol designed for use in hydronic systems for freeze and corrosion protection. WINTREX® HDR is designed to extend fluid life where service temperatures are higher and the likelihood of thermal degradation is greater. It is sometimes also used in less demanding applications because the heavy duty inhibitors last longer, and maintenance requirements can be reduced.

WINTREX® HDR is a formulation of reused / reclaimed Ethylene glycol and a specially designed industrial package of corrosion inhibitors, including a fluorescent yellow dye for leak detection. Up to 100% of the Ethylene glycol used in WINTREX® HDR is reused or reclaimed from a variety of industrial sources. The effectiveness of WINTREX® HDR heat transfer fluid in preventing corrosion has been proven both in use and in laboratory testing. Using WINTREX® HDR in place of brine solutions or uninhibited glycol/water solutions lowers maintenance costs and improves heat transfer efficiency.

WINTREX® HDR is designed to protect components commonly found in residential and commercial systems. WINTREX® HDR can also be used with aluminum at temperatures below 150°F (66°C). At temperatures above 150°F (66°C), use of WINTREX® HDR is not recommended because the inhibitors will not fully protect aluminum components in the system. WINTREX® HDR should not be used with galvanized steel.

Recommended use temperature range: -10°F (-23°C) to 225°F (107°C)

For health and safety information for this product, contact Houghton for a Safety Data Sheet (SDS).

WINTREX® HDR				
Typical Properties by Concentration				
Properties ¹	40%	35%	30%	25%
Ethylene Glycol	40%	35%	30%	25%
Performance Additives and Water	60%	65%	70%	75%
Appearance	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow
Specific Gravity (15/15°C 60/60°F)	1.060 - 1.091	1.059 - 1.075	1.050 - 1.067	1.040 - 1.059
pH 50% glycol	8.0 - 10.5	8.0 - 10.5	8.0 - 10.5	8.0 - 10.5
Reserve Alkalinity (minimum)	9	8	7	6
Freeze Point (maximum)	-10°F / -23°C	-4°F / -18°C	+4°F / -15°C	+10°F / -12°C

¹Mixtures based on volume of WINTREX® HDR

Typical properties, not to be construed as specifications. As use conditions are not within its control, Houghton Chemical Corporation does not guarantee results from use of the information or products herein; and gives no warranty, express or implied.

NOTE: These figures are examples only and may not be appropriate to your situation. Generally, for an extended margin of protection, you should select a temperature in this table that is at least 3°C (5°F) lower than the expected lowest ambient temperature. Houghton Chemical Corporation recommends a minimum glycol concentration of 25%. At lesser concentrations, the likelihood of bacteria growth increases. Also, at less than 25% concentrations there may not be enough inhibitor present to prevent corrosion of the system metals. Additional inhibitors can be purchased from Houghton Chemical Corporation.

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