

# WINTREX<sup>®</sup> Product Data Sheet

## Inhibited Ethylene Glycol-based Heat Transfer Fluid

WINTREX<sup>®</sup> heat transfer fluid is an inhibited ethylene glycol designed for use in hydronic systems for freeze and corrosion protection. The effectiveness of WINTREX<sup>®</sup> heat transfer fluid in preventing corrosion has been proven both in use and in laboratory testing. Using WINTREX<sup>®</sup> in place of brine solutions or uninhibited glycol/water solutions lowers maintenance costs and improves heat transfer efficiency.

WINTREX<sup>®</sup> includes a fluorescent yellow dye, for leak detection. WINTREX<sup>®</sup> is designed to protect components commonly found in residential and commercial systems. WINTREX<sup>®</sup> can also be used with aluminum at temperatures below 150°F (66°C). At temperatures above 150°F (66°C), use of WINTREX<sup>®</sup> is not recommended because the inhibitors will not fully protect aluminum components in the system. WINTREX<sup>®</sup> should not be used with galvanized steel or chlorinated polyvinyl chloride (CPVC).

**Recommended use temperature range:** -50°C (-60°F) to 120°C (250°F).

For health and safety information for this product, which is poisonous, contact Houghton for a Material Safety Data Sheet (MSDS).

WINTREX <sup>®</sup>								
Typical Properties by Concentration								
Typical Properties	Conc. (~volume EG)	60% (~volume Wintrex)	50% (~volume Wintrex)	40% (~volume Wintrex)	35% (~volume Wintrex)	30% (~volume Wintrex)	25% (~volume Wintrex)	20% (~volume Wintrex)
Ethylene Glycol	96	60	50	40	35	30	25	20
Performance Additives and water	4	40	50	60	65	70	75	80
Color	fluorescent yellow	fluorescent yellow	fluorescent yellow	fluorescent yellow	fluorescent yellow	fluorescent yellow	fluorescent yellow	fluorescent yellow
Clarity	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Specific Gravity (15/15°C 60/60°F)	1.120-1.135	1.085-1.100	1.066-1.092	1.055-1.070	1.050-1.065	1.045-1.057	1.035-1.050	1.025-1.040
pH 50% glycol	9.0-10.5	9.0-10.5	9.0-10.5	9.0-10.5	9.0-10.5	9.0-10.5	9.0-10.5	9.0-10.5
Reserve Alkalinity (min)	12	6	5	4	4	3	3	2.5
Freeze Point (°F) Max (as 50%)	-29	-55	-29	-9	0	5	12	17

Typical properties, not to be construed as specifications. As use conditions are not within its control, Houghton 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 is increased. Also, at less than 25% concentrations there may not be enough inhibitor present to prevent corrosion of the system metals. Additional inhibitors and/or a biocide can be purchased from Houghton Chemical Corporation.

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