HOUGHTON CHEMICAL CORPORATION

52 Cambridge Street • Allston (Boston) • MA 02134
Phone: (800) 777-2466 • Fax: (617) 254-2713
www.houghton.com

WINTREX® HDN Product Data Sheet

Inhibited Ethylene Glycol Based Heat Transfer Fluid

WINTREX® HDN heat transfer fluid is an inhibited ethylene glycol designed for use in large standing engines where freeze and corrosion protection is required. WINTREX® HDN 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.

The effectiveness of WINTREX® HDN heat transfer fluid in preventing corrosion has been proven both in use and in laboratory testing. Using WINTREX® HDN in place of uninhibited or under-inhibited glycol/water solutions lowers maintenance costs and improves heat transfer efficiency.

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

Recommended use temperature range: -60°F (-51°C) to 350°F (177°C).

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

WINTREX® HDN
Typical Properties by Concentration

Properties[1]	Conc.	60%	50%	40%	35%	30%	25%
Ethylene Glycol	90-95%	60%	50%	40%	35%	30%	25%
Performance Additives and Water	4-10%	40%	50%	60%	65%	70%	75%
Appearance	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow	Liquid, Clear, Fluorescent Yellow
Specific Gravity (15/15°C 60/60°F)	1.170 - 1.180	1.117 - 1.127	1.096 - 1.106	1.074 - 1.084	1.063 - 1.073	1.053 - 1.063	1.042 - 1.052
pH 50% glycol	9.0 - 10.7	9.0 - 10.7	9.0 - 10.7	9.0 - 10.7	9.0 - 10.7	9.0 - 10.7	9.0 - 10.7
Reserve Alkalinity (min)	23	14	12	9	8	7	6
Freeze Point Max	-34°F / -37°C (as 50%)	-63°F / -53°C	-34°F / -37°C	-10°F / -23°C	-4°F / -18°C	+4°F / -15°C	+10°F / -12°C

[1]Concentrate based on volume of Ethylene Glycol, mixtures based on volume of WINTREX® HDN

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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