



# HOUGHTON CHEMICAL CORPORATION

Phone 800-777-2466

Fax 617-254-2713

## WINTREX®

### ETHYLENE GLYCOL BASE HYDRONIC HEAT TRANSFER FLUID

| Typical Composition                                       |                    | % by Weight   |
|---|--------------------|---------------|
| Ethylene Glycol   |                    | 94.0          |
| Soluble Corrosion Inhibitors                              |                    | 3.7           |
| Total Water   | (ASTM D1123)       | 2.3           |
| Antifoam and Dye  |                    | as needed     |
| Silicates   |                    | none          |
| <b>Typical Properties</b>                                 |                    |               |
| Color   | Fluorescent yellow |               |
| Clarity   |                    | Clear         |
| Specific Gravity, 60/60°C                                 | (ASTM D1122)       | 1.120-1.131   |
| Reserve Alkalinity  | (ASTM D1121)       | 12.0 min      |
| pH, 33.33% by volume                                      | (ASTM D1287)       | 8.5-10.5      |
| Flash Point (Tag Open Cup)                                | (ASTM D1310)       | 250°F         |
| Ash   | (ASTM D1119)       | 2.0 by wt.    |
| Foam Test   | (ASTM D1881)       |               |
| Foam Volume   |                    | 50 ml. max.   |
| Break Time  |                    | 3.0 sec. max. |
| Boiling Point   | (ASTM D1120)       |               |
| 30.00% by volume  |                    | 220°F         |
| 50.00% by volume  |                    | 227°F         |
| 100% by volume  |                    | 325°F         |
| Bulk, Max. Temperature °F                                 |                    | 345°F         |
| Film, Max. Temperature °F                                 |                    | 400°F         |
| Freezing Point  | (ASTM D1177)       |               |
| 30.00% by volume  |                    | +3°F max.     |
| 50.00% by volume  |                    | -34°F max.    |
| 60.00% by volume  |                    | -62°F max.    |
| Viscosity @ 20°F in centistokes                           |                    |               |
| 50% solution w/w  |                    | 12            |
| 20% solution w/w  |                    | 4.5           |
| Viscosity @ 100°F in centistokes                          |                    |               |
| 50% solution w/w  |                    | 3.0           |
| 20% solution w/w  |                    | 1.1           |
| Specific Heat @ 150°F BTU/lb/°F                           |                    |               |
| 50% solution v/v  |                    | 0.87          |
| 20% solution v/v  |                    | 0.96          |
| Thermal Conductivity @ 150°F,<br>BTU/(Hr) (Sq Ft) (°F/Ft) |                    |               |
| 50.00% solution w/w                                       |                    | 0.24          |
| 20.00% solution w/w                                       |                    | 0.32          |

## **GENERAL INFORMATION**

**Use Recommendations** - WINTREX® is formulated for use in all hydronic systems where freeze and corrosion protection is required. Proper dilution, with water of good quality, is necessary to achieve desired freeze point protection and heat transfer capabilities. WINTREX® may be diluted to 20% by volume without significantly affecting corrosion protection in most applications.

**Hoses and Gaskets** - No adverse effect on gaskets or hoses.

**Cautionary Information** - Ethylene Glycol, the major component in this product, is poisonous to humans and animals when ingested. Store only in closed containers with complete cautionary information thereon, in a cool, secure place, out of reach of children.

Do not use in any system with potable water. Consult your sales representative for our product for this purpose.

ANTIFREEZE/HYDRONIC  
SPECIFICATIONS/510786