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Heat Transfer Fluid Comparison Product Guide Houghton Chemical - Dow Chemical

Houghton Chemical Corporation manufactures and distributes a diverse product line of Hydronic Heat Transfer Fluids. WINTREX® is our inhibited ethylene glycol product line. SAFE-T-THERM® is our inhibited propylene glycol product line. These heat transfer products are comparable to our competitors and are compatible with hydronic heating and cooling systems containing DOWTHERM™, DOWFROST™, or UCARTHERM¹™ heat transfer fluid products.

Additionally, our Laboratory Services include a complimentary Glycol Analysis program in order to monitor the efficiency of your inhibited glycol system. Due to our high standard of product quality, available customer service, and accessible technical expertise, Houghton Chemical supports using the SAFE-T-THERM® and WINTREX® product lines in place of DOWTHERM™, DOWFROST™, or UCARTHERM¹™ heat transfer fluid products. UCARTHERM™ is a trademark of the former Union Carbide Corporation, now owned by Dow Chemical Company. DOWTHERM™ and DOWFROST™ are trademarks of Dow Chemical Company.

Inhibited Propylene Glycol Heat Transfer Fluids*				
Manufacturer	Houghton Chemical	Dow Chemical	Houghton Chemical	Dow Chemical
Product	SAFE-T-THERM® GRAS	DOWFROST™	SAFE-T-THERM® HD	DOWFROST™ HD
Propylene Glycol % by weight (Concentrate)	96%	95.5%	95%	94%
Performance Additives & Water	4%	4.5%	v5%	6%
Propylene Glycol Grade	USP	USP	Technical	Technical
Color	Orange	Water White	Orange	Fluorescent Yellow
Freeze Point@ 50% °F/°C	-22/-31	-28/-33	-23/-31	-28/-33
Specific Gravity 60/60°F	1.055-1.065	1.046-1.056	1.057-1.067	1.053-1.063
pH (50%)	9.0-10.5	9.5-10.5	9.0-10.7	9.0-10.7
Reserve Alkalinity (min.)	12	9	16	16

¹Concentrate based on volume of Propylene Glycol, mixtures based on volume of Fluid

Inhibited Ethylene Glycol Heat Transfer Fluids*				
Manufacturer	Houghton Chemical	Dow Chemical	Dow Chemical	Dow Chemical
Product	WINTREX®	DOWTHERM™ SR-1	UCARTHERM™ PM 6141	UCARTHERM™ PM 6195 (Canada)
Ethylene Glycol % by weight (Concentrate)	95%	95.4%	94%	94%
Performance Additives & Water	5%	4.6%	6%	6%
Color	Fluorescent Yellow	Fluorescent Pink	Yellow to Green	Colorless
Freeze Point@ 50% °F/°C	-34/-37	-35/-37	-36/.37.8	-36/.37.8
Specific Gravity 60/60°F	1.120-1.135	1.122-1.132	1.130-1.136 (68/68°F)	1.130-1.136 (68/68°F)
pH (50%)	9.0-10.5	9.0-10.5	8.5-9.2	8.5-9.2
Reserve Alkalinity (ml/min)	12	12	22	22

¹Concentrate based on volume of ethylene glycol, mixtures based on volume of Fluid.

* Data taken from product literature

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