ComStar

ProFrost

Super Concentrate
Anti-Freeze and Heat Transfer Fluid

- Biodegradable
- 100% Propylene Glycol Formula
- Non-Toxic, Non-Irritating
- Safe Contact with Food, Beverage & Potable water

Bio-Safe Series

Industrial coolant and heat transfer fluid. Recommended for industrial applications and operating systems where it could come in contact with food, beverages or potable water.

ProFrost's safe, 100% propylene glycol formula is biodegradable and non-toxic. Excellent for HVAC systems of all kinds: thermal storage, water chillers, computer room cooling, solar systems, combined heating and cooling loops and radiant heating system.

Readying the system: DIRECTIONS: IMPORTANT- Remove any dirt, oil or metal filings that may contaminate the cooling system's piping. Flush the system thoroughly using a mild cleaning solution or high-quality water. Completely drain before charging with ProFrost. Note: Cleaning new systems is just as important as cleaning old ones. New systems can be coated with oil or a protective film. Dirt and scale are also common. In many cases, for both old and new systems, special cleaners are needed to remove scale. For more information on cleaners, contact ComStar at 1-800-328-0142.

KEEP OUT OF REACH OF CHILDREN

No Inhibitor & Color	With Corrosion Inhibitor	With Inhibitor & Color
☐ STOCK NO. 35-714 5 U.S. GALLONS (209 LITERS)	☐ STOCK NO. 35-720 5 U.S. GALLONS (209 LITERS)	☐ STOCK NO. 35-723 5 U.S. GALLONS (209 LITERS)
☐ STOCK NO. 35-715 55 U.S. GALLONS (209 LITERS)	☐ STOCK NO. 35-721 55 U.S. GALLONS (209 LITERS)	☐ STOCK NO. 35-722 55 U.S. GALLONS (209 LITERS)

DETERMINE TOTAL SYSTEM CAPACITY

Measure length and diameter of all pipe in the system and then estimate the system's total fluid using the chart below.

TYPE "L" COPPER TUBING		STANDARD STEEL PIPE	
Tubing size (inches)	Gallons per 100 ft. of tubing	Tubing size (inches)	Gallons per 100 ft. of tubing
3/8	0.75	3/8	1.00
1/2	1.21	1/2	1.60
5/8	1.81	3/4	2.80
3/4	2.51	1	4.50
1	4.28	1-1/4	6.30
1-1/4	6.52	1-1/2	10.20
1-1/2	9.25	2	17.00
2	16.06	2-1/2	27.50

PERCENTAGE VOLUME OF PROFROST REQUIRED FOR PROTECTION

Desired Chiller Temperature - Fahrenheit -	Percent PG Concentration Required By Volume	
	For Freeze Protection	For Burst Protection
	Chiller Fluid (PG) (Propylene)	Chiller Fluid (PG) (Propylene)
20 °	18%	12%
10	29	20
0	36	24
-10	42	28
-20	46	30
-30	50	33
-40	54	35
-50	57	35
-60	60	35

Notes: 1) 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 5°F lower than the expected lowest ambient temperature. Inhibitor levels should be adjusted for solutions of less than 30% glycol. Contact ComStar International Inc. for information on specific cases or further assistance.
2) Galvanized steel is not recommended because zinc will react to inhibitors used in glycol-based chiller fluids, causing precipitation of components, possible fouling and decrease of heat transfer efficiency.

FIRST AID: EYES: Flush with water for 15 minutes.
SKIN: Wash with soap and water.
INHALATION: Remove to fresh air.
INGESTION: Drink plenty of water, call physician.
Contents: Dipotassium Phosphate (CAS# 7758-11-4), Propylene Glycol (CAS #57-55-6) Corrosion Inhibitor Package included if appropriate box is checked off.

ComStar **ComStar International Inc.**
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