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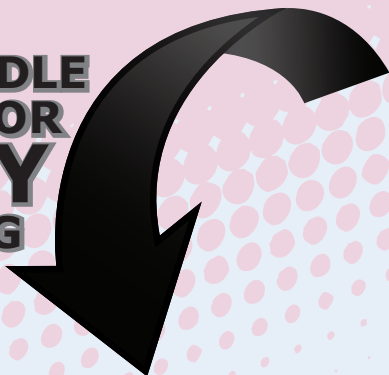
Freez-Kontr'l[®] HD

INHIBITED PROPYLENE GLYCOL

Heavy Duty Pink Formulation for Hydronic and Solar Applications

FOR PROFESSIONAL USE ONLY

**EXTRA HANDLE
FOR
EASY
POURING**



5 GAL (18.9 L)

Freez-Kontr'l[®] HD is a heavy-duty 70% propylene glycol-based heat transfer fluid formulated for hydronic applications where its multi-component inhibitor formulation provides added robustness for better service life. The specially developed formulation achieves a higher maximum operating temperature of 325°F, higher reserved alkalinity, better thermal stability and added stability when mixed with water containing up to 350ppm total hardness in closed loop systems. Freez-Kontr'l[®] HD is a pink colored solution to aid in system leak detection.

IMPORTANT: Freez-Kontr'l[®] HD should NOT be used in refrigeration applications where there is a possibility of incidental contact with potable water or food. For refrigeration applications, Nu-Calgon's Freez-Kontr'l[®], Freez-Kontr'l 95/5 or Freez-Kontr'l FG products must be used due to their low acute oral toxicity.

Typical Applications: Boiler Hydronic Systems, Chilled Hydronic Systems, Solar Applications, Sidewalk Snow Melting Systems, Thermal Energy Storage, Process Heating and Cooling, Refrigeration Warehouse Floor Heating, Ice Rinks and Others.

DIRECTIONS FOR USE:
This product must be used in accordance with the following directions by HVACR professionals only.

1. For fouled systems, the system must be cleaned with Nu-Calgon System Cleaner (4370-08) or other Nu-Calgon products suitable for cleaning hydronic applications.
2. The concentration of Freez-Kontr'l[®] HD will depend on the level of protection required. There are two kinds of protection: burst protection and freeze protection. Burst protection prevents bursting or mechanical damage. Freeze protection requires more glycol and it prevents the formation of ice crystals at the lowest temperature experienced by the fluid.
3. See the chart and select the lowest expected ambient temperature, then go 5°F colder to assure protection. Decide on the type of protection required and identify the percent volume in the system that must be Freez-Kontr'l[®] HD.
4. Calculate or estimate system volume in gallons and multiply this volume by the percentage shown in the chart. This will tell you the number of gallons of Freez-Kontr'l[®] HD that is required. For optimum corrosion protection, a minimum 43% concentration of product is required in the closed loop system.

Percent Volume of Freez-Kontr'l [®] HD	Freeze Protection	Burst Protection
100%	Below -60°F	-100°F
90%	Below -60°F	-100°F
80%	-49°F	-100°F
70%	-29°F	-100°F
60%	-12°F	-79°F
50%	1°F	-52°F
40%	10°F	-19°F

Always use a Nu-Calgon Glycol Refractometer (63101) to check freeze protection on the Propylene Glycol scale before leaving job site.

Contains: Propylene Glycol (CAS No. 57-55-6); Methanol (CAS No. 67-56-1)

⚠ WARNING: Reproductive Harm
www.P65Warnings.ca.gov

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