

SECTION 15751 - "GLYCOL SYSTEMS"

- 1.0 Inhibited ethylene glycol shall be used in all glycol applications. Glycol shall be DOW SR-1 or equivalent Union Carbide products.
- 2.0 The fluid shall have minimum reserve alkalinity of 11 milliliters and shall be capable of fluid bulk temperatures up to 250°F.
- 3.0 The glycol percentage in solutions for HVAC applications is application dependent. For heating applications the glycol systems shall contain 40% glycol by volume or have a freezing point at or below -12°F whichever is the most stringent. For other applications where only burst protection is required, lower percentages of glycol may be used. Provide pre-diluted solutions of industrial inhibited glycol from the fluid manufacturer for initial piping system fill.
- 4.0 Do not mix transfer fluids from multiple manufacturers.
- 5.0 Make-Up System - Specify a packaged chemical feed system, including diaphragm pump, tank, valves and strainers, piping, safety relief, starter and wiring. Provide a valved indirect water fill at the make-up tank. Avoid the use of automatic water make-up to prevent undetected dilution of the ethylene glycol and possible contamination of the water system. The tank shall be equipped with a level indicator and a contact(s) for an adjustable low-level alarm to be monitored by the Building Automation System (BAS) and the site monitoring and control system.

END OF SECTION