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INDUSTRIAL WATER TREATMENT
COMPLETE TREATMENT SERVICES
FOR ALL HEATING & COOLING
WATER CIRCUITS

GLYCOL ANTIFREEZE INHIBITOR

The inhibitor used in glycol/water systems is Dipotassium Phosphate. The Phosphate based inhibitor is effective in preventing corrosion of metal commonly used in HVAC, food processing and process heat transfer equipment. These inhibitors prevent corrosion of metals in two ways:

First they passivate the surface of the metal, reacting to the surface to prevent acids formed as a result of glycol oxidation. All glycols produce organic acid as degradation products. The degradation is accelerated in the presence of oxygen and/or heat. Left in solution, such acids lower the pH and contribute to corrosion. Hood Chemical's inhibitor package neutralizes these acids.

The primary control is the maintenance of an adequate level of "Reserve Alkalinity" in the system glycol fluids. Normally, a Reserve Alkalinity of at least 8 mls is recommended and can easily be tested with Hood Chemical's "ALKALINITY COMPARITIVE TEST KIT"

The use of sodium nitrite or sodium molybdate as the primary inhibitor in glycol systems, risk sacrificing the longevity of the glycol and the possibility of system damage and downtime for repairs or replacement due to the limited buffering capacity.

Please contact your Hood Chemical representative for further information.