

HYDRO 424

CORROSION AND SCALE INHIBITOR

Description

Hydro 424 is an alkaline liquid blend of phosphates and organic polymers. **Hydro 424** is formulated to give excellent protection against corrosion and scale in open recirculating water systems.

Properties

Colour	Colorless liquid
Odour	Slight
Sp. Gravity	1.05 – 1.08 at 20°C
pH	5.5 – 7.5

Method of Application

Hydro 424 should be added continuously to the cooling water as near as possible to the pump suction. **Hydro 424** can be added as a concentrate or diluted with water. Small cooling system may use a drip feed assembly. Larger systems should be use a chemical feed pump and dosing tank.

Dosage Procedure

Passivation : Initially, in order to obtain the required protective film over the metal surfaces, a passivation dose of at least 500 mg/l (as product) should be added. This procedures must be repeated whenever the inhibitor residual fails below the minimum maintenance level.

Maintenance Level: To retain the correct concentration of **Hydro 424** the level of product- should be maintained at 100-150 mg/l and pH between 7.0-9.0.

Dosage Rate

A number of factory affect the addition rate of **Hydro 424**:

- (1) Quality of make up water.
- (2) Circulation rate of cooling water.
- (3) Bleed and windage loss.
- (4) Evaporation loss.

The following formula may be used as a guide to determine the amount of **Hydro 424** required.

$$L = F \times H \times 0.0012$$

Where: L = Litres of **Hydro 424**

F = Circulation rate (litres/sec).

H = Hours of operation.

Assumption:

Windage and bleed = 0.1 % of circulation rate

Temperature drop = 6.0 °C

Example: To determine the weekly dose of **Hydro 424** in a cooling water system with:

Circulation rate = 10 l/sec

Hours operation = 120 hours/week

Calculation : L = 10 x 120 x 0.0012

= 1.44 litres/week

Service

The necessary test kit, relevant technical advice and service are available from **Hydro-Chem**

Packaging

Plastic container with net weight 25 kgs

Hydro-Chem Pty. Ltd

27 Viking Court, Cheltenham,
Victoria, 3192 Phone (03) 5531011
Melbourne - Australia.

