ProPure CWT-P ES-3DP (COOLING WATER TREATMENT)

Cooling Water Treatment

Closed-loop scale and corrosion prevention

Description

ProPure CWT-P is a product designed for use in marine diesel main engine jacket cooling water, as well as in closed-circuit cooling and heating systems. It comes in powder form and serves as an excellent corrosion inhibitor. This product is free from chromate and is compatible with glycol-based antifreezes.

ProPure CWT-P effectively protects metals, including iron, copper, and aluminium, by forming a protective film layer that limits oxygen contact with the metal surfaces. It does not adversely affect materials such as packings, gaskets, or O-rings. We strongly recommend using ProPure CWT-P in all indoor heating and cooling systems for optimal protection and performance.

Directions For Use/Applications & Dosage Rates General Cleaning

If there is no cooling water inhibitor in the system, the initial dosage should be 3 kg for every 1 ton of water. Subsequent dosages can range from 1 to 3 kg for each ton of water that is added. The effectiveness of the dosage can be monitored through a nitrite test, which should always be maintained in the system.

Adding 1 kg of ProPure CWT-P to 1 ton of water results in an average of 900 ppm of nitrite. Therefore, the required amount should be calculated based on this value. For example, if you add 2 kg of ProPure CWT-P to a system containing 1 ton of water, it will result in an average of 1800 ppm of nitrite in the system.

TEST METHOD

pH : 8.5-10.0

Total Hardness : Up to 150 ppm (mg/l)

Chloride : There should be a maximum of 50 ppm in high-speed engines and a maximum of 180 ppm in low-speed engines.

Nitrite : The nitrite ratio should be measured in the range of 2000-3000 ppm in high-speed engines, and the nitrite rate in low-speed engines should be measured in the range of 1000-2000 ppm. To achieve the desired value range in a system with parameters that exceed ideal levels, partial blowdowns should be performed. For instance, if the chloride concentration is 100 ppm in a system where the ideal level is 50 ppm, you can achieve the target by blowing down 50% of the water from the system and adding enough ProPure CWT-P to replace the volume of water removed. This will provide effective protection for the system. It is important to note that 1 kg of ProPure CWT-P will deliver 900 ppm of nitrite to 1 ton of water.

Summary

- In regular use, it provides significant energy savings by preventing limescale and corrosion that may occur in main engine jacket cooling water chambers.
- Prevents sudden stops, explosions, punctures and blockages with regular application.
- Saves both time and money without the need for extra cleaning in periodic maintenance.
- Minimises and eliminates rust residues with regular use.

A) Organic Properties

Apperance

Physical State (20°C): Powder

Color : Yellow

Odor : Odorless

B) Physical Properties

pH (25% solution) : 9.0-10.0 Molecular

Weight : -

Explosion Limit : No

Flash Point : No

Density : 1.10-1.20 g/cm^3

Solubility : Completely soluble in water.

Storage Conditions

Packaging Type : 25-30 kgs original plastic buckets

Storage Period : 3 years

Approvals & Certificates

IMO 14001 9001

Product No : SP-KS-013

Aydınlı-KOSB Mah. Organik Cad.
KOSB Sitesi No:1 Pk. 34776 Tuzla/ISTANBUL
T. +90 (216) 499 50 00
Pbx. +90 (216) 499 50 02
M. operations@ertekchemicals.com
W. www.ertekchemicals.com