



# RXSOL

CHEMO PHARMA INTERNATIONAL

## Technical Data Sheet (TDS)

### RXSOL-40-4012-025

Cool Water Treat Corrosion Inhibitor

#### Chilled Water Systems CI

RXSOL Cool water Treat Corrosion Inhibitor is a organic liquid corrosion inhibitor with low-toxic poerty provides long-life corrosion protection for closed cooling water systems . Rxsol Cool water Treat Corrosion Inhibitor will protect all commonly used materials in engine cooling water systems, including aluminium. Cool water Treat Corrosion Inhibitor does not contain components subject to rapid depletion. Cool water Treat Corrosion Inhibitor is stable and biodegradable

#### How to use

RXSOL Cool water Treat Corrosion Inhibitor is a highly effective corrosion inhibitor for all common metals in cooling water systems. Where most traditional inhibitors react with the metal surface and form oxides that prevent further corrosion, Cool water Treat Corrosion Inhibitor applies a thin and durable layer of protective molecules to the metal surfaces. This technology prevents the continuous build-up of insulating layers on heat transfer surfaces. For new builds, RXSOL recommends cleaning of the water system before commercing service. The system will always contain small amounts of oil and iron oxides, and this can be easily removed in 1 time with RXSOL Commissioning Cleaner. If the system is corroded or is more heavily contaminated use RXSOL Degreaser HD. RXSOL Safe Acid for removal of metal oxides or scale is recommended. For systems previously treated with other products, Wilhelmsen Ships Service recommend to drain and flush the system before refilling with distilled water and Cool water Treat Corrosion Inhibitor . The system should be clean and free from scale and corrosion products when starting the treatment. The use of antifreeze is sometimes required if the vessel is to be laid up in cold areas, Cool water Treat Corrosion Inhibitor can be used in conjunction with glycols for frost protection. If used in conjunction with glycols, It is recommended to increase the product concentration to 8%.

#### Specifications

Appearance	Clear Colourless
Odor	Odorless
Density	>1.1 gm/cm3
pH	9.5-10.5

#### Dosing

Cool water Treat Corrosion Inhibitor should be dosed to a suitable point in the system. If the expansion tank is used, adequate circulation must be assured.

Cool water Treat Corrosion Inhibitor should always be present in a concentration of 5% or higher in the system. It is good practice to start with initial dose for an untreated system of 60 litres of Cool water Treat Corrosion Inhibitor /ton. 5% will provide sufficient protection of the system for a period of two to five years under normal conditions provided. To prevent residual falling below minimum level due to loss of cooling water, Wilhelmsen Ships Service recommend to maintain a level of 6% Cool water Treat Corrosion Inhibitor in the cooling system.

The engine manufacturer's recommendations for water quality should always be complied with. Cool water Treat Corrosion Inhibitor provides good protection even with contamination of the system by i.e. inorganic salts. Maintain Chloride levels and other contaminants at a minimum level. Most engine manufacturers recommend a maximum of 50 ppm Chlorides.

#### Features

- Contains Corrosion inhibitors for C.S, S.S, & Cu, which helps to extend equipment life & reduce maintenance costs.
- Contains no heavy metals compatible with antifreeze, no environmental restrictions.
- Completely water soluble, which enhances complete system protection.
- Contains high concentrations of active inhibitors, thus dosage rates become more cost effective.
- Cool Water Treat Corrosion Inhibitor is most effective at pH> 8.0.
- Cool Water Treat Corrosion Inhibitor is formulated with a synergistic blend of nitrite and other Inhibitors.
- Contains a blend of alkalis to offer metal passivation.
- Contains a special dye to trace system leaks & observe Inhibitor Concentration.
- Cool Water Treat Corrosion Inhibitor contain special Corrosion Inhibitors that can tolerate moderate heat fluxes.
- Contains Corrosion Inhibitors for soft metals (weld joints).

### General Recommendation

Nitrite (as PPM NO <sub>2</sub> )	0	100-200	300-600	700-900	1100-1300	1440-2400
RXSOL-40-4012-025/1000L	13.0	11.3	8-10	5-7	1.5-3.5	0

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