Corfit

CT Protect A

Hardness stabiliser, corrosion inhibitor and dispersant for open evaporative coolers

Brief information

Product type: Hardness stabiliser, corrosion inhibitor (iron & steel materials) and dispersant

Contains: Phosphonates, polyelectrolytes

Preferably used for: Open cooling circuits without non-ferrous metal parts.

Can be used in the pH range: 6 – 10

Dosage: 50–100 ml/m3 in the circuit = approx. 12–25 ml/m3 of fresh water with thickening factor 4

Transport class: No hazardous goods, no transport restrictions

Container sizes: 25kg (=20l) pH-value (direct): approx. 7.5 – 8.0 Density (20°C): approx. 1.26 g/cm^3

Product description

Corfit CT Protect A is a state-of-the-art, phosphate-based cooling-water additive offering multiple effects. It is preferably used in open evaporative coolers made of plastic or steel materials without non-ferrous metal parts.

CT Protect A is chemically stable. It can also be used in hard (KH>12° dH) water with an increased solids content and is compatible with the biocides Sanosil Super 25, Sanosil S015 and Sanosil C.

Corfit CT Protect A: Properties

- Functions as a hardness stabiliser and protects treated systems from limescale and mineral deposits
- Protects iron and steel materials from corrosion
- Inhibits sediment sludge formation and subsurface sludge corrosion
- Optimises heat transfer
- Improves flow performance
- No hazardous goods, no transport restrictions


Corrosion


Mineral deposits


Sludge/sediments

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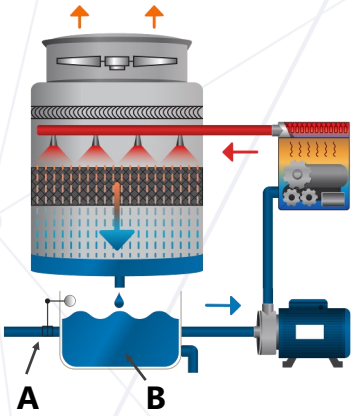
Dosage

- To ensure **hardness stabilisation** in cooling circuits, the minimum concentration is 5 ml of Corfit Protect A per m^3 of water. The recommended average concentration is **50 ml per m^3 of water.**
- To ensure **corrosion protection** as well as hardness stabilisation, an average content of **100 ml per m^3 of water** is added in the compensating tank.

Corfit Protect A is added to the system directly or it is diluted with water. We recommend using a dosing pump.



It is added proportionally to the amount of additional water, either into the supply line **(A)** or directly into the compensating tank **(B).**

If it is dosed using the additional water, the thickening factor must be taken into consideration. Example: If a value of 150 ml/m3 is to be achieved in the circuit with a thickening factor of 4, 1/4 of the required dosage (=38 ml/m3) is added to the fresh water.

Since Corfit CT Protect A remains chemically and thermally stable in the circuit, it is only necessary to compensate for losses caused by leaks or desalination. As an alternative, the desalination water quantity can therefore also be measured and used to calculate the required dosing quantity of Corfit CT Protect A into the compensating tank **(B)**

Controlling biological growth

To prevent biofilms containing germs that promote corrosion, form slime and/or are harmful to health, we recommend using the biocides **Sanosil C** or **Sanosil Super 25 in addition to Corfit CT Protect A.** (An average dosage of approx. 30 ml per m3 of water is ideal.) The dosage is also applied proportionally to the fresh water. **(A)**

Analytics

The Corfit Protect A content is determined based on the organically bound phosphorus content of the treated water. The Corfit Protect A content can be calculated from the determined analytical value as follows:

1mg/l phosphorus = 19 ml of Corfit Protect A per m3 water

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