

Corfit CT Protect B

Corrosion inhibitor, hardness stabiliser and dispersant for open evaporative coolers with mixed materials and increased corrosion-protection requirements



Brief information

Product type: Corrosion inhibitor (for iron & steel materials, copper materials), hardness stabiliser and dispersant.

Contains: Organic corrosion inhibitors, phosphonates, polyelectrolytes

Preferably used for: Open cooling circuits with a mixture of materials and increased corrosion protection requirements.

Can be used in the pH range: 6–10 (ideally 7–8)

Dosage: 100–150 ml/m³ in the circuit = 25–38 ml/m³ fresh water with thickening factor 4

Container size: 20 kg

pH-value (direct): 1.2–1.6

Density (20°C): approx. 1.05 g/cm³

Product description

Corfit CT Protect B is a state-of-the-art, phosphate-based cooling water additive offering multiple effects. It is preferably used in open evaporative coolers with a mixture of iron, steel and/or non-ferrous metal parts.

CT Protect B is chemically stable. It can also be used in soft/partially softened water as well as in hard (KH > 12°dH) water with an increased solids content. It is thermally stable up to 80°C and is also compatible with the biocides Sanosil Super 25, Sanosil S015 and Sanosil C.

Corfit CT Protect B: Properties

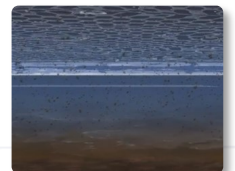
- Protects iron, steel and copper materials (also as a mixed installation) against corrosion
- Functions as a hardness stabiliser and protects treated systems from limescale and mineral deposits
- Inhibits sediment sludge formation and subsurface sludge corrosion
- Optimises heat transfer and flow performance



Corrosion



Mineral deposits



Sludge/sediments



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Dosage

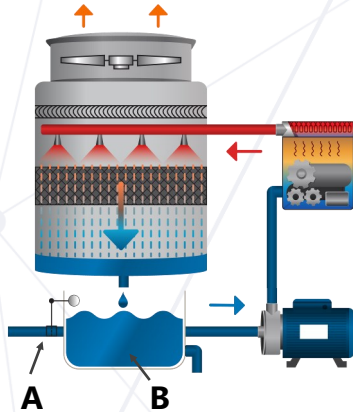
To achieve optimum corrosion protection as well as hardness stabilisation, a moderate concentration of **100–150 ml of Corfit CT Protect B per m³ of water** should be added to the circuit.

(300 ml of Corfit CT Protect B per m³ of water should be used for starting up/passivating new systems over a time period of 8–12 weeks).

Corfit Protect B is added to the system directly or it is diluted with water. We recommend using a dosing pump. It is dosed proportionally to the amount of additional water, either into the supply line **(A)** or directly into the compensating tank **(B)**.



Corfit CT Protect B



If it is dosed using the fresh 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 B 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 B into the catch basin **(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 B. (An average dosage of approx. 30 ml per m³ of water is ideal.) The dosage is also applied proportionally to the fresh water. **(A)**



Analytix

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

1 mg/l phosphorus = 30 ml of Corfit Protect B per m³ water.



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