Innovative soliutions
for water treatment

Cetamine® F300

Corrosion and scale inhibitor for closed systems

APPLICATION

Cetamine® F300 is an organic product that protects hot water and chilled water systems from corrosion and scale by forming a protective film. Cetamine® F300 is directly fed into the circulation system. The polyamines in Cetamine® F300 form a protective film that creates a barrier between the dissolved oxygen and the surfaces of steel and copper alloys, thus preventing corrosion. For systems containing aluminium and alloys, Cetamine® F360 is recommended.
Using Cetamine® F300 in closed pH systems, pH is maintained at 9.0 - 9.5, thus stopping corrosion of copper and steel.
The amines in Cetamine® modify the crystalline chain of calcium carbonates to form an anti-corrosion coating.

SPECIFICATION

Cetamine® F300 is a liquid product consisting of a specific copper inhibitor and film-forming amines.

Form:	a yellowish liquid that smells like amines
pH (1% liquid):	11,0 ± 0,5
Density (20°C/68 °C):	1,00 ± 0,02 g/m³
Ability to dissolve:	completely water-dissolveable
Stability at high temperature:	360°C

IMPACT ON THE ENVIRONMENT

Read the safety data sheet.

ACTION

During the treatment, polyamines form a polyamine film on the metal surface, which creates a barrier between water and metal. The film reduces the flow rate by 90% oxygen to the metal surface, thereby reducing corrosion.
Copper corrosion protection is achieved thanks to the copper inhibitor in the product. In addition, the amine film changes the crystal chain of calcium carbonate, preventing it from attaching to the metal surface.

DOSAGE

The exact dosage of the product depends on many factors: concentration factor, chloride concentration and time index. It is generally recommended that a dose of 5 l/m^3 be maintained in cycling water.

USAGE

The Cetamine® F300 is sprayed directly into the circulation system. The additional water is treated with automatic dosing system that regulates the product flow according to the amount of water supplied. All parts of the system that interact with the product must be alkali-resistant (e.g. PVC, PE). The product is not compatible with Viton.
Cetamine® F300 should be used undiluted.

ANALYTIC CONTROL

The quantity of Cetamine® F300 is set according to the concentration of polyamines, i.e. using the titration or photometric method. The amount of polyamines must be maintained at least 2 g/m^3.
Sufficient dosage of Cetamine® F300 should be checked by additional pH level measurement. In this case it should be between 9.0 and 9.5.

STORAGE

Cetamine® F300 должен храниться при комнатной температре в плотно закрытых емкостях.

SAFETY

Please read the safety data sheet. The expiry date of the reagent is indicated on the packaging label.

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