

Cetamine® G817

Organic corrosion inhibitor for use in food industry steam boilers

APPLICATION

Cetamine® G817 is an organic fluid product for protection against corrosion in steam generators and boiler houses by forming a Cetamine® protective film on the metal surface and regulating it to the optimum pH value range. It is an organic corrosion inhibitor designed for use in food industry steam boilers.

All components of the Cetamine® G817 are volatile. The concentration ratio of these components is balanced to provide effective corrosion protection throughout the system, including the steam and condensate systems. Cetamine® G817 provides complete protection for systems that contain copper or copper alloys. This product is suitable for water that is prepared with softening, reverse osmosis or ion exchange technology.

Thanks to the formation of a stable protective film Cetamine®, the Cetamine® G817 can be used further for non-stop operation of the equipment and also provides complete protection of the equipment during its shutdown.

Cetamine® G817 is designed to protect boilers that produce steam for food processing other than milk and dairy products. It complies with the provisions of the Food, Cosmetics and Drug Act and all applicable regulations, including FDA 21 C.F.R. 173.310 if the concentration of the Cetamine® G817 does not exceed 55 g/m³.

ACTION

The process of stopping corrosion when using the Cetamine® G817 is based on the following principles:

1. Formation of a protective film of Cetamine® amines (CFA) on metal surfaces, including steam and condensate systems;
2. Carbon neutralization and pH control throughout the system, thanks to the specific proportion of alkaline amines;
3. Better heat transfer thanks to a higher coefficient of heat transfer from the heated surfaces to the water, compared to conventional water treatment methods;

4. The formation of thinner and more homogeneous oxidation layers

SPECIFICATION

The Cetamine® G817 is based on film and alkaline amines.

Form:	transparent or slightly cloudy, colourless or yellowish liquid
Density (20°C/68°F)	0,98 ± 0,03 g/cm ³
pH (1% liquid)	11,1 ± 0,5
Ability to dissolve:	the product is not recommended to be diluted

ANALYTIC CONTROL

The quantity of CFA can be determined by photometric method "Cetamine® (A18)" or "Cetamine® Test Kit".

DOSAGE

The dosage of the Cetamine® G817 is different for each system. The experts of ŠOMIS will help you to choose the right dosage. Typical dosage of the Cetamine® G817 is 15 to 55 g/m³ and should be regulated until the pH value is higher than 8.8 g/m³ and the CFA concentration in the system is lower than 0,5 g/m³.

The Cetamine® G817 is recommended to be continuously dosed into a low pressure water supply line. The product should be dosed using an automatic dosing system.

The Cetamine® G817 is dosed without dilution. If it is not possible to dose the product undiluted, the Cetamine® G817 can be diluted with distilled water. In this case the solution should be mixed.

SAFETY

The Cetamine® G817 is suitable for industrial use only. Detailed information can be found in the safety data sheet.

STORAGE

The Cetamine® G817 should be stored at 15-30°C in tightly closed bins. The expiry date is indicated on the packaging.