
WET-Treat[®] 1014

Hardness Stabilizer and Dispersant for Cooling and Process Water Systems (Suitable pH Range: 7 – 10)

Scope of Application:

WET-Treat[®] 1014 is a hardness stabilizer, which has excellent dispersing properties in chemical cooling and process waters. **WET-Treat[®] 1014** is used to prevent the harmful effects of high hardness and high sludge content in water cooling systems. **WET-Treat[®] 1014** is a liquid blend of phosphonic acids, polycarboxylic acid and copper inhibitor.

Product Data:

WET-Treat[®] 1014 is a liquid blend product of phosphonic and polycarboxylic acids.

Appearance : Colorless, clear liquid.

pH (1% solution) : app. 2.5

Density (20°C/68°F) : 1.100 ± 0.02 g/cm³

Freezing Point : <0°C

Miscibility in water : Miscible with water at any ratio

Total P content (PO₄⁻³) : 8.5 ± 0.5%

Effect on Environment : The product is non-volatile and non-flammable and has low phosphorus content and free of N. For further information please check the MSDS of the product.

Mode of Action:

WET-Treat[®] 1014 prevents the formation of crystals from water hardness by blocking crystal growth (Threshold Effect). Beyond the stabilization limit an amorphous precipitate is obtained which is dispersible and does not form a hard scale. It can be removed from the cooling system by normal blow-down.

WET-Treat[®] 1014 is suitable for the pH range from 7 to 10.

Dosage:

Dosing **WET-Treat[®] 1014** depends on many factors such as concentration ratio, chloride content, temperature, hardness, sludge content, holding time index etc. and should be selected with Green Chemicals representative.

Recommended dosage: 5-30 ppm (g/m³) circulating water.

Application:

WET-Treat® 1014 is recommended to be used by diluting in certain ratios. The product should be added directly in proportion with the make-up water to the cooling tower basin. It can also be dosed from the suction side of the circulation pump.

WET-Treat® 1014 dosing equipments must have been made of PE or PVC materials.

Analysis:

The content of **WET-Treat® 1014** in the cooling water is determined by PO₄⁻³ concentration. The determination of PO₄⁻³ content can be carried out after oxidative decomposition of the phosphonic acids.

PO₄⁻³ Analysis Method:

1 g/m³ **WET-Treat® 1014** = 0,085 g/m³ PO₄⁻³

1 g/m³ PO₄⁻³ = 11,76 g/m³ **WET-Treat® 1014**

ISO 9001-14001:

Our quality system has been certified by TÜV-Thüringen on the basis of EN ISO 9001 and EN ISO 14001.

Packing:

Plastic canister of 60 kg / 200 kg plastic drums container

Transport and Storage:

The product must have been kept in original container and closed warehouse under room temperature. Please refer to the original MSDS for further information.