



Corrosion inhibitor KOH 14

Corrosion inhibitor and hardness stabilizer

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Application

Corrosion inhibitor KOH 14 is a highly efficient environmentally compliant corrosion inhibitor for open cooling systems, which are operated temporary as sealed systems (low evaporation amount, summer activity/winter activity or energy recovery).

Properties

- high corrosion inhibition for iron, cast iron, steel, copper and copper alloys by forming protective layers on the metal surfaces
- Fields of application: decarbonised water, deionized water, softened blended water as well as raw water of the hardness grades 1, 2 and 3
- Hardness forming products are stabilised (prevention of calcification)
- Carbonate hardness suitable for maximum 20 °d in the cooling water (KS 4.3 max. 7 mol/m³)
- Effective dispersion of particle, lime and iron oxides are therefore keeping heat transfer layers clean
- Increasing the pH-level in the cooling water
- Dosage can be monitored with a simple field test kit

Characteristics

Corrosion inhibitor KOH 14 is a clear, brownish liquid

Density: 1.28 ± 0.03 g/cm³(20 °C)

pH level: 11.8 ± 0.4

Solidification Point: -10 °C

Dosage and application

Operation mode for open cooling systems

The Dosage is between 50 and 150g/m³ feed water, so that depending on the concentration factor and the make up water quality in the cooling water the corrosion inhibitor KOH 14 content of 200 to 1000 g/m³ is determined with the test kit. The Dosage of corrosion inhibitor KOH 14 should be proportional to the make-up water.

Operation made for sealed systems

Cooling systems, which have no fresh water feeding, need a higher Dosage. Depending on the particularities of the water and the operating method the corrosion inhibitor KOH 14 content should be 2000 to 4000 g/m³ circulation water. All dosage equipment parts in direct contact with corrosion inhibitor KOH 14 should consist of alkali-resistant material. Compatible materials are PE, PP, PVC, stainless steel and EPDM-sealings.

Storage and handling

Keep container closed. Storage at room temperature. The supply occurs in cans, drums or containers. When using corrosion inhibitor KOH 14 observe the hazard warnings and safety precautions indicated on the product label as well as the notes in the safety data sheet.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

These specifications correspond to our state of knowledge and to our experiences. However, they are no legal assurance of specific working characteristics for a concrete application and do not free the user from own tests and precaution because of the abundance of possible influences.