

## Ferrocid® 4555

# Slimicide and preservative for liquid-cooling and processing system

### Application

Ferrocid® 4555 is suitable for use in the pH range between 5 and 9 for the following applications, Killing of microorganisms, COD / TOC / BOD reduction and redox potential increase.

### Effect

The individual reactions of Ferrocid® 4555 in an aqueous medium at pH values between 5 and 9 chlorine dioxide formed in admixture with other chlorine oxygen compounds. Reducing anions such as sulfite, nitrite, etc. are converted directly into the maximum oxidative valence. Organic compounds can be converted into oxygen derivatives, no longer direct chlorination are accessible.

The biocidal effect results from the disinfecting action of the chlorine dioxide, which synergistically through the presence of further chloro-oxidic components is increased. The redox potential of the treated Water increases here. Ferrocid® 4555 is bactericidal, sporicidal, viricidal and algicidal. Due to its non-specific mode of action germ adaptations are not possible. Application

### Dosage

Ferrocid® 4555 can be added to the water system via a dosing pump without any problems. It should be ensured that at the addition point thorough mixing with the medium to be treated is guaranteed.

For slime control Ferrocid® 4555 is best dosed periodically over a short period of time several times a day (shock dosing). The recommended level of dosage is 100 - 400 g per ton dry pulp.

For increasing the control of biological growth a shock treatment with 10 - 50 g/m<sup>3</sup> is recommended, for continuous dosing 5 - 25 g/m<sup>3</sup> are sufficient.

Chlorine dioxide concentrations > 7 g / L are to be avoided in any case!

### Chemical and physical properties

Characteristics	Data
Colour and appearance:	Colourless to slightly yellowish liquid
Spec. weight (20°C):	1,15 – 1,30 g/cm <sup>3</sup>
pH (20°C):	ca. 11 – 13

Ferrocid® 4555 an inorganic, liquid mixture of Chlorine based anions

### Safety information

Read marking and product information before use.

## PRODUCT INFORMATION -FERROCID® 4555

### Toxicity

No damaging effects have been observed when handled properly. For further information regarding eco toxicity and safe handling please refer to the material safety data sheet.

### Storage

The expiry date and storage temperature of the product are given on the packaging labels.  
Special advise

Ferrocid® 4555 should be stored at room temperature in closed containers. Protect from sunlight, away from source of heat and frost.

### Material compatibility

Pumps should be made of PTFE, PVC, PP, PE or FPM. Pipes and storage tanks should be made of PTFE, PVC, PP, PE or FPM.

Brass, carbon steel and stainless steel should not be used.

For more information contact our equipment department

### Certification

Our quality management system (ISO 9001), environmental management system (ISO 14001) and occupational health and safety management system (BS OHSAS 18001) are successfully certified by Lloyd's Register.

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The information contained herein reflects our current level of technical knowledge and experience. It does not constitute a legal warranty of particular characteristics or of fitness for a specific purpose and, due to the abundance of possible influences, does not exempt the user from making its own examinations and taking appropriate precautionary measures. It shall be the responsibility of the recipient of our products to respect any intellectual property rights and comply with any laws or other provisions

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