PRODUCT INFORMATION
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Ferrocid® 5280-S

Disinfection agent for drinking water systems

Application

Ferrocid® 5280-S is a disinfection agent suitable for drinking water (systems) pipes and containers.

Effect

Ferrocid® 5280-S reduces the corrosion on carbon steel and copper, as well as deposits. With its compounds Ferrocid® 5280-S is in accordance with the German Drinking Water Directive (TrinkwV 2001).
Ferrocid® 5280-S is a disinfection agent with a broad range effective against bacteria, fungi and algae.
Against Legionella, sodium hypochlorite with a minimum concentration of 10 mg/l free chlorine is recommended for a discontinuous disinfection.

Dosage

Continuous dosage:
With a continuous usage of Ferrocid® 5280-S the local legislation (e.g. obedience of the limits for phosphate, silicate, and freechlorine) has to be considered.
Discontinuous dosage:
During the discontinuous dosage suitable precautions must be taken to make sure that no water for human usage will be withdrawn from the system.
1 l/m³ Ferrocid® 5280-S, this corresponds to 50 60 mg/l free-chlorine (recommendation of DVGW W 291).
The dosage depends on the contamination of the system. At the end of the treatment 10 mg/l free chlorine (corresponding with DVGW W551/552) should still be detectable in the system.
Concerning the recommendation of DVGW W 291 the Ferrocid® 5280-S solution while using the static method should be kept for 12 hours in the completely filled-up line section.
Discontinuous Method:
The pipes are filled with Ferrocid® 5280-S - treated water.
The addition must not be stopped until the line is completely filled-up.
All intakes have to be kept open until the characteristic odour of chlorine can be noticed. Keep open a few minutes and then close.
During the complete disinfection process the intakes and existing intake sluice valves should be opened for a short time to be disinfected, too.
Let the water drain off and close again.
According to DVGW worksheet W291, a contact time of 12 hours should be considered.
After disinfection the pipeline system has to be rinsed properly with water.
At all intakes a free-chlorine-content of 0.3 mg/l must not be exceeded after rinsing.
Comments
All fittings and shower-heads also need to be disinfected sufficiently.
For disposal in the canal the local legislation has to be considered.
Sodium hypochlorite from the disinfection of systems must be deactivated with a reduction agent before disposing it into waste water or surface water. To ensure the optimal selection of a reducing agent, consult with a Kurita representative.
Additional remark
Microorganisms, embedded in particles and dirt (especially on organic basis) cannot totally be eliminated by disinfection agents, because they are not able to penetrate into these particles. In this case, the first step to remove the contamination is to clean the system. During the cleaning procedure, sticking dirt particles should be removed by rinsing or suitable cleaning agents. After this, a disinfection has to be done.

Characteristics	Data
Colour and appearance:	yellowish to greenish, clear to slightly turbid liquid
Spec. weight (20°C):	1,14 – 1,20 g/cm³
pH (20°C):	ca. 12 – 13
Cl2:	>4.0 %
SiO2:	2.4 – 3.4 %

Total PO4:	1.6 – 2.4 %

Safety Information

Use biocides safely.
Read marking and product information before use.

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® 5280-S should be stored at room temperature in closed containers at a thoroughly-aired place. Protect from sunlight and frost.
The shelf life applies to unopened packaging.

Material Compatibility

Pumps should be made of PTFE, PVC, PP, PE or FPM. Pipes and storage tanks should be made of PTFF, PVC, PP, PE or FPM.
Brass, carbon steel and stainless steel should not be used.
For more information contact our equipment department.

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