

Technical Data Sheet

KRONES hydrocare 500

Scale inhibitor

Product description and application

Liquid, clear, slightly yellow

KRONES hydrocare 500 is specially designed to inhibit SiO₂ scale formation in RO-systems with polyamide, cellulose acetate and polyether membranes with negative or neutral charged surface. KRONES hydrocare 500 is a stabilized blend of polymers and copolymers suitable for use within broad pH ranges. It is the most effective inhibitor against colloidal and dissolved SiO₂ deposit on the membrane surface. The allowable silica content in the RO-concentrate stream can be as high as 260 mg/l under the normal plant operating conditions. The product does not contain any phosphonates and phosphates. KRONES hydrocare 500 is designed and approved as a highly efficient scale inhibitor for use with cellulose acetate and polyamide membranes. There is no interaction with the membrane material. The dosage is controlled proportionally to the feed water flow. Standard metering pumps are used. Fitting materials are PE, PP or coated steel. It is recommended to inject KRONES hydrocare 500 undiluted. The required dosage level depends on the operating conditions and water composition and varies in the range of 1 to 10 ppm as delivered. KRONES hydrocare 500 is easy to be handled and does not contain any aggressive component. The pH value of the product is slightly acidic. For industrial use only.

Technical product data

pH value	4.8 – 5.3
Density	1.11 – 1.17 g/cm ³
Freezing point	-10°C
Boiling range	100 – 105°C
Viscosity	80 mPas

Storage and shelf life

The product should be stored sealed in the original container in a cool, well ventilated place. Storage temperature: +2 °C - +35 °C. Minimum shelf life: 2 years.

Material safety data sheets

The current material safety data sheets are available for you to download from our website:
www.kic-krones.com/en/downloads.php

You are also welcome to request them by e-mail to kic@kic-krones.com.

Labelling

Please refer to the corresponding material safety data sheet for details on:

- Hazardous goods labelling (section 2)
- Transport regulations (section 14)
- Safety regulations (section 4-8)

Application notes

Due to possible incompatibilities with other products, it is recommended to rinse dosing equipment (pumps, pipes) thoroughly with water prior to a change-over to KRONES hydrocare 500.

Operating conditions

Concentration	1 – 10ppm (mg/l)
Dosing	Proportional to the water flow
Temperature	Given

Concentration check

Via water consumption

Material compatibility

Compatible with all common materials in food industry like: Stainless steel, glass, PET, PE, PP, PVC, PVDF, PTFE, Viton, EPDM. At the same time, however, the possibility of material incompatibilities cannot be completely ruled out. We recommend to carry out appropriate tests in case of uncertainty.

Disposal note

Recycling of packaging only fully emptied and closed. Any product residues must be disposed of in accordance with local regulations. For further information, please refer to our material safety data sheet (section 13).

Further information

See EC safety data sheet

Exclusion of liability

To the best of our knowledge, the information reflects today's know-how and experience of the Krones Group and does not include any guarantee of features, nor does it guarantee the suitability of the product for specific purposes. Legal liability cannot be deduced from information provided or from oral consultation. This product information is not subject to the updating service. It is mandatory to carry out a test run and an inspection of the features before the products are used.

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