

Technical data sheet

KRONES Hydrocare 500**Scale Inhibitor****Product description and application**

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.

Operating conditions

Cocentration:	1 to 10ppm (mg/l)
Dosing:	proportional to the water flow
Temperature:	given

Concentration check

Via water consumption

Physical data

Form/colour/smell:	clear, slightly yellow liquid
pH value:	4.8 to 5.3
Density:	1.11 to 1.17g/cm ³
Freezing point:	- 10°C
Boiling range:	100 to 105°C
viscosity:	80 mPas

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.

Storage/ Shelf life

The product should be stored sealed in the original container in a cool, well ventilated place.

The storage temperature should be between +2°C and 35°C.

Minimum shelf life: 2 years.

Classification

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

Transport Regulations
Safety Regulations

Disposal

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 safety data sheet.

Further information

See EC safety data sheet

Special instructions

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.

This version of the technical data sheet supersedes all previous versions, which thereby become invalid.

All information and recommendations are based to the best of our knowledge on the latest state of the art in technology and our experience and do not constitute a contractual relationship. All references to DIN standards are for product description purposes only and do not constitute a guarantee.

Processing and material quantities need to be adjusted to account for local conditions. In the event of problems, please seek technical advice. Subject to changes.