

# Product Data Sheet



## Scale Inhibitor Antiscalant 5000A

Date: 01.11.2010

### GENERAL

**ANTISCALANT 5000A** is specially designed to inhibit  $\text{SiO}_2$  scale formation in RO-systems with polyamide, cellulose acetate and polyether membranes with negative or neutral charged surface.

**ANTISCALANT 5000A** is a stabilized solution blend of polymers and copolymers suitable for use within broad pH ranges. It is the most effective inhibitor against colloidal and dissolved  $\text{SiO}_2$  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.

### APPLICATION AND DOSAGE

**ANTISCALANT 5000A** 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 **ANTISCALANT 5000A** 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.

**ANTISCALANT 5000A** is easy to be handled and does not contain any aggressive component. The pH value of the product is slightly acidic.

### PHYSICAL PROPERTIES

Appearance:	clear, slightly yellow liquid
Density:	1,11 – 1,17 g/cm <sup>3</sup>
pH-value:	4,8 – 5,3
Viscosity:	80 mPa.s/ccm
Freezing point:	- 10°C
Boiling point/boiling range :	100 – 105°C
Solubility in water:	unlimited

### STORAGE & HANDLING

**ANTISCALANT 5000A** is not classified as a hazardous chemical (GGVE/GGVS, ICOA/IATA). Standard regulations and precautions when dealing with chemical products have to be followed.

**ANTISCALANT 5000A** is easy to store. The storage temperature should be between +2 °C and 35 °C. The product is supplied in containers suitable for air or sea transportation. The safety data sheet contains more information.

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## PACKAGING

Polyethylene container (PE)	23.5 kg net
Standard drum (PE)	240 kg net
Container (PE)	1.100 kg net

Comply with EU regulations **CEN/TS 164**, **EN 15039** and **EN 15040** used for treatment of water intended for human consumption.

The data and information contained in this data sheet are based on technical data and tests we believe to be reliable. They are offered in good faith for use by persons having appropriate technical skill at their own discretion and risk. Supplier has no control of design and operating conditions and consequently cannot assume any reliability for results obtained or damage incurred through the use of the product presented. ROPUR RPI Antiscalants are continuously improved and therefore we reserve the right to modify or amend specifications without prior notice.  
Comply with EU regulations