



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

Scale Inhibitor ROPUR RPI-2000

Date: 01.12.2010

GENERAL

RPI-2000 is specially designed to inhibit the scale formation in RO-systems equipped with polyamide-, celluloseacetate- and polyethermembranes with anionically charged surface.

RPI-2000 is a stabilized solution of low molecular weight sodium polyacrylates. The product does not contain any phosphonates and phosphates.

RPI-2000 is most effective against sulphate scale of calcium, strontium and barium as well as calcium carbonate scales. RPI-2000 effectively dispergates heavy metal oxides and other fine particulates.

APPLICATION AND DOSAGE

RPI-2000 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. In order to avoid biological fouling, the containers have to be cleaned from time to time with a 10 % sodium bisulphate solution.

RPI-2000 can be diluted with water in any ratio. However, it is recommended to inject the antiscalant undiluted or as solution up to 10 %. The diluted solutions have to be consumed within 48 hours after preparation. The required dosage level depends on the operating conditions and water composition and varies in the range of 1 – 10 ppm as delivered.

RPI-2000 is easy to be handled and does not contain any aggressive component. The product is hydrolytically stable.

PHYSICAL PROPERTIES

Appearance:	clear, slightly yellow liquid
Density:	1,19 – 1,21 g/cm ³
Viscosity:	approx. 250 mPa.s
pH-value:	7,0 – 7,5
Freezing point:	- 23° C
Boiling point/boiling range :	< 100 °C
Solubility in water:	unlimited



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STORAGE & HANDLING

RPI-2000 is not classified as a hazardous chemical (GGVE/GGVS, ICOA/IATA). Standard regulations and precautions when dealing with chemical products have to be followed.

RPI-2000 is easy to store. The storage temperature should be between +5 °C and 30 °C. The product is supplied in containers suitable for air or sea transportation.

The safety data sheet contains more information.

PACKAGING

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

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.