



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-4000B

Date: 01.05.2011

GENERAL

RPI-4000B is specially designed to inhibit the scale formation in RO-systems equipped with polyamide-, celluloseacetate- and polyethermembranes with anionically charged surface.

RPI-4000B is a stabilized solution of organic phosphonates with strong threshold effects.

RPI-4000B is a special antiscalant to inhibit the scale formation of calcium, barium and strontium salts. The efficiency of **RPI-4000B** is specially remarkable for barium sulphate as well as for strontium sulphate. With **RPI-4000B** it is even possible to inhibit the scaling of barium sulphate in the higher ppm range. Furthermore calcium hardness and even iron may be stabilized.

APPLICATION AND DOSAGE

RPI-4000B 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-4000B 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 2 – 16 ppm as delivered.

RPI-4000B 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, amber liquid
Density:	1,06 – 1,10 g/cm ³
pH-value:	4,7 – 5,2
Freezing point:	- 10° C
Boiling point/boiling range :	100 °C
Solubility in water:	unlimited



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STORAGE & HANDLING

RPI-4000B 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-4000B 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.

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.