



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®-5600

Date: 01.10.2023

GENERAL

RPI-5600 is specially designed to inhibit the scale formation in RO-systems equipped with polyamide-, celluloseacetate- and polyethermembranes with anionically charged surface.

RPI-5600 is a stabilized modified polyacrylate. The product does not contain any phosphonates and phosphates.

RPI-5600 was developed as dispersant system and hardness-stabilizer for Reverse Osmosis application. RPI-5600 prevent or reduce organic fouling on membrane surfaces as well as pipes. A further advantage is the stabilizing effect for carbonate and sulphate scales.

APPLICATION AND DOSAGE

RPI-5600 is designed and approved as a highly efficient scale inhibitor for use with cellulose acetate, polyamide or PVDF membranes. There is no interaction with the membrane material.

The dosing rate must be indexed proportionally to the feed water flow. Standard metering pumps are used. The RPI-5600 is compatible with stainless steel 1.4541, 1.4571, HDPE and LDPE. In order to avoid biological fouling, the containers have to be cleaned on a regular basis with a 10 % sodium bisulfite solution (or DBNPA, or an isothiazoline substance)

RPI-5600 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 – 2.5 ppm as delivered.

RPI-5600 is easy to be handled and does not contain any aggressive component. The pH value of the product is slightly alkaline.

PHYSICAL PROPERTIES

Appearance:	clear, dark yellow liquid
Density:	1,25 – 1,35 g/cm ³
Viscosity (ISO 3219 @23°C):	approx. 500 mPa.s
pH-value:	8,0 – 9,0
Freezing point:	- 6° C
Boiling point/boiling range :	< 100 °C
Solubility in water:	unlimited
Pour Point (ISO 3016):	approx. -35



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STORAGE & HANDLING

RPI-5600 is not classified as a hazardous chemical (GGVE/GGVS, ICOA/IATA). Standard regulations and precautions when dealing with chemical products must be followed.

RPI-5600 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 Shelf-life of the RPI-5600 (when kept un-opened) is at least of 24 months. 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 can not assume any reliability for the 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.