



VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES



S-14 RO

Reverse Osmosis Scale Inhibitor



Scale



No Scale

PRODUCT DESCRIPTION

S-14 RO is a multifunctional antiscalant for reverse osmosis systems, highly effective in preventing calcium carbonate scale formation on membrane surfaces. Besides its excellent calcium carbonate scale inhibition properties S-14 RO is effectively controlling calcium sulfate, calcium fluoride, and metal oxides scale formation.

S-14 RO has compatibility approvals from membrane manufacturers.

All ingredients in S-14 RO are certified to ANSI/NSF Standard 60 for use in reverse osmosis systems producing potable water.

S-14 RO is not affected by chlorine or other oxidizing biocides under normal conditions of use. S-14 RO should be injected in membrane systems after chlorine and sodium metabisulphite treatment.

FEATURES

- Economical
- Safe to use
- Very effective against scale formation
- ANSI/NSF Standard 60 certified

TYPICAL PROPERTIES

Appearance	Clear yellow liquid
pH	3.3(Neat)
Solubility (water)	100%
Non-volatile Content	50-55%
Density	10.1-10.2 lb/g (1.20-1.23 g/cm ³)

TOXICOLOGICAL DATA

Acute oral LD50 (rats)	>2000 mg/kg
Eye irritation (rabbits)	Irritant
Skin irritation (rabbits)	Non-irritant

ECOLOGICAL DATA

96 hr LC50 (rainbow trout)	>100 mg/l
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DOSAGE

S-14 RO is miscible with water in all proportions and should be dosed continuously and proportionately to the feed water flow, to maintain the recommended dosage level.

The dosage level required is dependent on the quality of the feed water and the saturation indices of the various scale forming species present in the concentrated brine.

Recommended operation limits of the most relevant brine water parameters:

Silica	up to 200 ppm max.
LSI	<2,78
Iron	<1 ppm max.
Aluminum	<0.5 ppm



Calcium Sulphate up to 8000 ppm max.

LIMITATIONS

1. S-14 RO is an aqueous solution of organic acids. That's why the dosing equipment should be made from suitable materials, i.e. PVC, glass reinforced plastic, HDPE, etc.

2. S-14 RO is not compatible with residual cationic monomers from the pre-treatment.

PACKAGING AND STORAGE

S-14 RO is available in HDPE 25 kg pails and 250 kg drums.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT SAFETY DATA SHEET FOR MORE

INFORMATION

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