S-14 RO
Reverse Osmosis Scale Inhibitor

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/cm³)

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

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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