



water | wastewater | sewage

## WATER TREATMENT CHEMICALS

### MAK-S3/ S5

#### Reverse Osmosis Silica Antiscalants



#### OVERVIEW

MAK Water's S3 and S5 are proven, high performance antiscalants/ antifoulants specifically designed for problematic silica scale. It is the only silica scale inhibitor with extensive, actual pilot study data of efficiency on membrane systems applications. Initial data shows effective control of silica up to 240 ppm.

Further studies on additional water sources are expected to establish even higher limits. Correct use of this product provides longer run times and extended element life resulting in reduced operating and capital costs.

#### BENEFITS:

- Effectively controls scales including silica, calcium carbonate, calcium sulphate, barium sulphate, and strontium sulphate, with limit of  $\text{SiO}_2 < 240 \text{ mg/l}$  in concentrate
- Compatible with all of the leading RO/NF membranes.
- Maintains cleaner membrane surfaces by dispersing particulate foulants.
- Effective in feedwaters that range in pH from 5 – 9.

#### SAFETY DATA

For storage, handling and other important safety data, please refer to the MAK Water S3 and S5 SDS's..

#### APPLICATION

For maximum effectiveness, MAK S3/ S5 should be added prior to the suction of the high pressure feed pump.

The correct dosage rate is dependant upon several parameters, including feed temperature, pH, and chemical analysis, and will be specified by your MAK Water consultant after a detailed survey of your plant. To obtain the optimum results, MAK S3/ S5 should be added continuously using a suitable metering pump. Important note: Over and under-dosing may cause membrane fouling so please contact MAK Water. Our technical service engineers are available to advise on recommended dose rates for your application.

Store in the original containers and ensure that the cap is always secure.

Do not store in temperatures above 40°C or below 0°C for extended periods.

Do not stack more than two high for prolonged periods. Avoid storing near direct heat and in direct sunlight. Store out of the reach of children and away from thoroughfares.



**SAFETYDATASHEET  
AVAILABLE**

To ensure the proper operation of MAK Water treatment equipment in accordance with the Operations & Maintenance Manual, the use of MAK products is mandatory.

PDS-S3/S5-001