SupraChem

Product Information

SupraChem 6405 – Superior Antiscalant for Membrane Systems

Product Description

SupraChem 6405 combines new generation technology with specially selected phosphonates enabling superior carbonate, sulfate, and silica protection in feed waters with high suspended solids loading. This high performance formulation provides superior scale inhibition, allowing lower dosage rates compared to traditional phosphonate chemistries.

SupraChem 6405 is ideally suited for high salt, silica and colloidal foulant feed streams by ensuring stable performance with complete control of the feed water chemistry

- Effective against silica fouling
- Effective in retarding polymerization and precipitation of reactive and non-reactive silica
- Excellent control of carbonate scales, sulphate and fluoride for cost effective operation
- Higher performance allows for lower dose rates than existing formulations
- Dispersant
- Compatible with RO, NF, and UF membranes from all major manufacturersInternational potable water approvals
- Protects membranes from deposition of colloidal silica

Typical Properties

The following are typical properties for SupraChem 6405 and should not be regarded as specification limits for the product. A product specification is available on request.

Appearance	: clear to yellow liquid
pH	: 2.5 ± 0.5
Specific gravity at 20/20^{o}C	: 1.15 ± 0.05
Freezing point range	: 0 to -15 ^{o}C

Chemical Reactivity

SupraChem 6405 is not affected by chlorine or other oxidising biocides under normal conditions of use without only Supracid 300.
SupraChem 6405 may be used in membrane systems using chlorine and sodium metabisulphite.

The recommended injection point is into the feed stream prior to the static mixer and any cartridge filters.

SupraChem 6405 is miscible with water in all proportions. It may be applied as the neat product, or as a solution in permeate. Minimum dosing solution strength of 10% w/w is recommended. SupraChem 6405 should be dosed continuously and proportionately to the feed water flow, to maintain the recommended dose level.

The dose 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.

In the dosage range of 1 – 5 mg/L (neat), control of a wide range of inorganic scales at up to 100x saturation values or higher is possible. By monitoring the concentrate stream and trend charts using Dose Level Projections, optimal dosage can be achieved for the control of scales.

Proprietary computer software is used to calculate scaling indices and calculate optimum system recovery. Dose level projections and recommendations are available on request.

Handling

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

Please read the label and Material Safety Data Sheet before handling this product.

Logistics

Classification	Hazardous for transportation, class 8 Irritating to eyes for supply
Packaging	25 kg (net weight) Plastic drums 230 kg (net weight) Plastic drums 1000 kg (net weight) Intermediate bulk containers