

SpectraGuard™ 311 is an 8x Super Concentrated antiscalant/dispersant that has been proven as a superior pretreatment in RO feed water. SpectraGuard™ 311 is a high performance blended antiscalant/dispersant with broad spectrum scale inhibition. Capable of controlling carbonates, sulfates, phosphates, metal hydroxides, silica and particulates, SpectraGuard™ 311 provides full protection of the membrane system from a multitude of feed waters. SpectraGuard™ 311 can be used in municipal reuse, heavy industrial, drinking water and other high loading applications.

### Features / Benefits

- High performance formula provides best available inorganic scale inhibition
- 8x concentrate significantly reduces freight and inventory requirements
- Using a proprietary blend of polymers and phosphonates this formula provides added control of membrane fouling in waters with high salts, high silica and colloidal foulants
- Higher performance allows for lower dose rates than existing formulations
- Stable molecular structure maintains integrity in high pH, high temperature and high salinity applications
- Classified for use in membrane systems producing drinking water (ANSI/NSF Standard 60)

### Uses

- Control of calcium carbonate, calcium sulfate, barium sulfate, calcium fluoride, silica, and hydroxides of iron and manganese

### Specifications

|                    |                            |
|--------------------|----------------------------|
| Appearance         | Amber / pale yellow liquid |
| pH (1% solution)   | 1.60 – 2.20                |
| Density (kg/liter) | 1.26 – 1.31                |



### Packaging

Pail: 5 gallon/18.9 liter

Tote: 275 gallon/1,040 liter

Drum: 55 gallon/208 liter

Bulk: available upon request

*For special packaging options, please contact PWT or your local distributor.*

**SpectraGuard™ 311**  
LIQUID REVERSE OSMOSIS ANTISCALANT

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## General Mixing & Application Instructions for SpectraGuard™ 311

1. Typical dose rates are 0.25 to 0.75 mg/l
2. Contact Professional Water Technologies™ or your local distributor for custom chemical dosing recommendation

## ProDose XPRT™ – Scaling Prediction Software

ProDose XPRT™ uses the most accurate scaling prediction calculations available to accurately determine effective antiscalant dosage, and cleaning chemical usage. The user can enter multiple cases to study various operating conditions, directly enter concentrate analysis, and select the best PWT product and dosage for the application.

*ProDose XPRT™ is available upon request only. Please contact your PWT representative for more information.*

PWT ProDose

**PWT**

UNITS: US | TEMPERATURE: Fahrenheit | PERMEATE FLOW: 81.00 | RECOVERY: 75.0 % | ANTISCALANT: SpectraGuard Liquid | DOSAGE: 2.95 PPM | SOURCE: Well Water | PROJECT NAME: Project 1 | CASE: 1

**PROJECT INFORMATION**

CLIENT NAME: City of San Diego  
PROJECT NAME: Project 1  
LOCATION:  
PREPARED BY:  
DATE: 5/1/2016  
WATER TYPE: Well Water

**MEASUREMENTS**

PRESET UNITS: CGS | Metric | U.S.  
TEMPERATURE: Deg F  
FLOW RATES: Gal/min  
MASS UNITS: lb  
Enter

**COMMENTS (OPTIONAL)**

**TOTAL CASES (1 AVAILABLE)** Max 9 +

| Cases | Modified Date |
|-------|---------------|
| 1     | 5/27/2016     |

Selected Case Description