



SpectraGuard™ 281 is a concentrated antiscalant/dispersant with strong carbonate and sulfate inhibition capabilities. Best suited to feed waters with relatively low scaling potential, SpectraGuard 281 is an economical antiscalant developed to provide basic scale control in a wide variety of membrane systems. Compatible with cationic polymers commonly fed in upstream systems, SpectraGuard™ 281 can be used in light municipal, well and industrial applications.

Features / Benefits

- Compatible with cationic polymers commonly fed in upstream system components (such as Professional Water Technologies™ FilteRx™ product line).
- Concentrated formula significantly reduces freight and inventory requirements
- Stable in presence of chlorine, can be used in systems with halogen in feedwater
- Stable molecular structure maintains integrity in high pH and high temperature applications

Uses

- Control of calcium carbonate, calcium sulfate, barium sulfate and calcium fluoride

Specifications

Appearance	Clear liquid
pH	2.0 – 2.5
Density (kg/liter)	1.4 – 1.5

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™ 281
CONCENTRATED, LIQUID REVERSE OSMOSIS ANTISCALANT

AQUAREP S.R.L.

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SpectraGuard™ 281

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General Mixing & Application Instructions for SpectraGuard™ 281

1. Typical dose rates are 1 to 6 mg/l
2. Contact Professional Water Technologies™ or your local distributor for custom chemical dosing recommendation

ProDose XPRT™ – Scaling Prediction Software

PWT proprietary scaling prediction software, ProDose XPRT™ provides immediate dosage capabilities for our specialty chemicals. The software can create cases to study multiple operating conditions, and directly enter concentrate analyses leading to the optimal selection of PWT product and dosage. ProDose XPRT™ can generate complete and comprehensive reports detailing the scaling projections.

ProDose XPRT™ is available upon request only.

Please contact your PWT representative for more information.

The screenshot displays the ProDose XPRT software interface. At the top, the Professional Water Technologies logo is visible. Below it, a navigation bar contains tabs for UNITS SELECTED, TEMPERATURE, UNIT PERMEATE FLOW, SYSTEM RECOVERY, ANTISCALANT SELECTED, ANTISCALANT DOSAGE, WATER TYPE, PROJECT NAME, and CASE NUMBER. The main interface is divided into several sections: PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT. The central area is titled 'STREAM INFORMATION' and includes fields for STREAM COUNT, CURRENT STREAM, and TDS. To the right, there are 'FEED PARAMETERS' for TEMPERATURE, pH, and TDS. Below these are 'ION CONFIGURATION' options for SHOW FEED and SHOW CONCENTRATE. The bottom section displays a 'Balance OK' button and a numerical value. On the right side, there are two tables: 'FEED CATIONS' and 'FEED ANIONS', each with columns for IONS, mg/L, meq/L, and ppm CaCO3. The 'FEED CATIONS' table lists various ions like Ca, Mg, Na, K, NH4, Ba, Sr, Fe, Mn, and Al. The 'FEED ANIONS' table lists HCO3, Cl, SO4, F, NO3, PO4, and SiO2. Both tables include a 'Total' row at the bottom.

IONS	mg/L	meq/L	ppm CaCO3
Ca	97.20	4.8503	242.73
Mg	23.45	1.9296	96.57
Na	85.39	3.7142	185.88
K	4.67	0.1194	5.98
NH4	0.00	0.0000	0.00
Ba	0.0900	0.0013	0.07
Sr	0.1000	0.0023	0.11
Fe	0.34	0.0122	0.61
Mn	0.01	0.0005	0.03
Al	1.34	0.1490	7.46
Total	212.59	10.7789	539.43

IONS	mg/L	meq/L	ppm CaCO3
HCO3	284.56	4.6642	233.42
Cl	107.51	3.0327	151.77
SO4	120.00	2.4984	125.03
F	0.49	0.0258	1.29
NO3	12.34	0.1990	9.96
PO4	0.00	0.0000	0.00
SiO2	21.2100	0.3530	17.67
Total	546.29	10.7791	539.44