



FilteRx™ 6100 was developed to improve the efficiency of direct filtration processes to increase the removal of colloidal solids and to remove dissolved organics upstream of multi-media filter systems.

Features / Benefits

- Balanced blend of ferric sulfate and medium molecular weight organic polymer
- Effective when polymer-only formulations are ineffective
- Compatible with SpectraGuard™ 250 antiscalant and other phosphate-based antiscalants
- Compatible with, and with not foul, polyamide membranes
- Effective over a wide pH range

Uses

- Proven to increase efficiency of colloidal removal in direct filtration systems
- To reduce turbidity, color, and colloidal constituents from a variety of process streams
- Typical dose range 0.5 to 5.0 mg/l

Specifications

Appearance	Straw colored liquid
pH	5.5 - 6.5
Density (kg/liter)	1.00 - 1.10

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.

FilteRx™ 6100
LIQUID COAGULANT BLEND OF FERRIC SULFATE AND ORGANIC POLYMER

FilterX™ 6100

LIQUID COAGULANT BLEND OF FERRIC SULFATE AND ORGANIC POLYMER

General Mixing & Application Instructions for FilterX™ 6100

1. Overdosing of coagulants may cause reduction in filtration efficiency.
2. Call Professional Water Technologies™ or your local distributor for custom chemical dosing recommendation.

NOTE: Inorganic coagulants such as FilterX™ 6100 are dependent on pH and alkalinity and their addition alters that chemistry. Please refer to the following table for further application guidelines for FilterX™ 6100.

Illustration of addition of 1 mg/l ferric sulfate.

	Formula	Mg/l alkalinity reduction	Mg/l SO ₄ increase	Mg/l Na ₂ SO ₄ increase	Mg/l CO ₂ increase	Mg/l total solids increase
Ferric Sulfate	Fe ₂ (SO ₄) ₃	0.76	0.76	1.07	0.64	0.27

NOTE: Use of incompatible antiscalants may cause a gelatinous foulant on the membrane. Please contact Professional Water Technologies™ on the proper chemical program across the entire membrane system.

ProDose XPRT™ – 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™ is available upon request only.

Please contact your PWT representative for more information.

The screenshot displays the ProDose XPRT software interface. At the top, it shows the Professional Water Technologies logo and navigation tabs for Units Selected (Metric), Temperature Unit (Celsius), Unit Permeate Flow (0.75), System Recovery (75%), Antiscalant Selected (SpectraGuard Liquid), Antiscalant Dosage (2.95 PPM), Water Type (Well Water), Project Name (PWT ProDose), and Case Number (1). The main interface is divided into several sections: PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT. The WATER QUALITY section is active, showing STREAM INFORMATION (Stream Count: 0, Current Stream: 0, Current Stream: 0), FEED PARAMETERS (Temperature: 77.0, pH: 7.20, TDS: 759), and ION CONFIGURATION (SHOW FEED selected). The ION CONFIGURATION section displays a table of feed cations and anions with their respective concentrations in mg/L, meq/L, and ppm CaCO₃.

FEED CATIONS				FEED ANIONS			
IONS	mg/L	meq/L	ppm CaCO ₃	IONS	mg/L	meq/L	ppm CaCO ₃
Ca	97.20	4.8503	242.73	HCO ₃	284.56	4.6642	233.42
Mg	23.45	1.9296	96.57	Cl	107.51	3.0327	151.77
Na	85.39	3.7142	185.88	SO ₄	120.00	2.4984	125.03
K	4.67	0.1194	5.98	F	0.49	0.0258	1.29
NH ₄	0.00	0.0000	0.00	NO ₃	12.34	0.1990	9.96
Ba	0.0900	0.0013	0.07	PO ₄	0.00	0.0000	0.00
Sr	0.1000	0.0023	0.11	SiO ₂	21.2100	0.3530	17.67
Fe	0.34	0.0122	0.61				
Mn	0.01	0.0005	0.03	CO ₂	0.18	0.0059	0.30
Al	1.34	0.1490	7.46	CO ₂	39.25	0.8913	44.60
Total	212.59	10.7789	539.43	Total	546.29	10.7791	539.44