

PERFORMANCE BENEFITS:

- Contains more than 8% soluble ferric ion and less than 0.2% ferrous ion.
- Filter-aid properties resist solids breakthrough in direct filter applications.
- Low dosage requirements and effective over a wide pH range.
- Capable of producing RO quality feedwater in multimedia and sand filters.
- Compatible with polyamide and cellulose acetate RO membranes and Avista antiscalants, including Vitec® 3000, 3025, 5000, 5100 and 7000.

RoQuest® 4000 liquid coagulant is an organic polymer and ferric sulfate blend used to enhance the removal of a broad spectrum of inorganic particulate, organics, silt, and colloids in multimedia filters. This multicomponent polymer and iron salt coagulant is formulated specifically for membrane use, including applications of surface waters that are brackish or seawater in origin. RoQuest 4000 is injected into the feedstream of multimedia and sand filters to enhance filter performance by reducing turbidity and color to produce an improved filtrate that will reduce downstream reverse osmosis (RO) and nanofiltration (NF) membrane fouling.

Best results are achieved in raw waters with upper limits of turbidity and color (10 NTU and 10 units, respectively) or in feedwaters where organic polymers have been under or overdosed.

INSTRUCTIONS FOR USE
Injecting

Inject RoQuest 4000 at least 15 feet (5 m) upstream of multimedia filters. This allows proper mixing within the feedstream before introduction into the filter. Do not use static mixers ahead of the filters as the shear imparted by this equipment will degrade the polymers contained in this formulation.

Dosing

A typical RoQuest 4000 dose ranges from 2-25 mg/l. Approximately 0.25 mg/l of alkalinity expressed as calcium carbonate is required per mg/l of RoQuest 4000. Following coagulant addition, a minimum of 25 mg/l of residual alkalinity is required.

Significant overdosing of RoQuest 4000 may cause degradation in the quality of the filtered water.

Dilution

RoQuest 4000 should be fed neat if possible. When dilution is necessary, dilute no more than 4:1 with RO permeate or deionized water.

Please consult your sales representative for further technical or logistical details and always review the SDS before use to ensure suitable safety precautions are followed.

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PRODUCT INFORMATION
Packaging and Storage

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request.

SPECIFICATIONS

Appearance: Clear, dark brown liquid
pH (1% solution): 2.0-3.0
Specific gravity (@25°C): 1.3-1.4

PACKAGING FORMAT	AMERICAS/ ASIA	EMEA
Pail	45 lb	23 kg
Drum	500 lb	300 kg
IBC tote	2500 lb	1500 kg