

COAGULANT

# RoQuest™ 3000

Liquid Coagulant

## APPLICATION

RoQuest™ 3000 is a liquid coagulant that contains a proprietary blend of organic polymers, which is injected into the feedstream of multimedia and sand filters. It enhances filter performance by reducing turbidity and color to produce an improved filtrate that will reduce downstream cartridge filter, reverse osmosis (RO), and nanofiltration (NF) membrane fouling.

RoQuest 3000 can be used on municipal treated water, boreholes, brackish water, seawater, and wastewater at low doses. RoQuest 3000 works best on waters with a turbidity less than 2.0 NTU and color units under 10. In raw waters, with turbidities higher than 2.0 NTU and color units higher than 10 units, a metal salt can be added such as ferric chloride or ferric sulfate, to aid in particulate and color removal.

## INJECTING

Inject RoQuest 3000 at least 15 feet (5 m) upstream of the 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 3000 dose ranges from 0.5 to 4.0 mg/l. For specific dosing calculations, refer to the RoQuest Coagulants Selection Guide and the Avista™ Advisor™Ci software program. Significant overdosing of RoQuest 3000 may cause degradation in the quality of the filtered water.

## DILUTION

Prior to injection into the feedstream, RoQuest 3000 can be diluted at a rate of 25:1 using dechlorinated water. This can improve product effectiveness but is not generally necessary.

## CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Clear to amber liquid
pH (1% solution)	4.0 – 6.0
Specific gravity (@25°C)	1.0 – 1.1

## PERFORMANCE BENEFITS

- Filter-aid properties resist solids breakthrough in direct filter applications.
- Low dosage requirements and no minimum alkalinity.
- Internal biostat inhibits biological growth in the drum and feed tank.
- Effective over a wide pH range.
- Capable of producing RO-quality feedwater in multimedia and sand filters.
- Compatible with polyamide membranes from all major manufacturers.
- Suitable for use with Avista™ antiscalants.

## PACKAGING AND STORAGE

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

PACKAGING FORMAT	AMERICAS	ASIA	EMEA
Pail	45 lb	20 kg	20 kg
Drum	475 lb	220 kg	220 kg
IBC tote	2500 lb	1100 kg	1100 kg



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NSF/ANSI 60

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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