

COAGULANT

RoQuest™ 6000

Liquid Coagulant

APPLICATIONS

RoQuest™ 6000 is a liquid blend of dual organic coagulants and ferric sulfate used to reduce turbidity and remove humic and fulvic acids in multimedia filters. This product works well on waters containing high soluble organics and turbidities above 2.0 NTU. This multicomponent polymer and iron salt coagulant is formulated specifically for membrane use, including applications of surface waters that are both brackish and seawater in origin. Although this product is membrane compatible, overfeeding of pretreatment chemicals is not recommended as it can affect organic and particulate removal. RoQuest 6000 is also used as a coagulant and flocculant aid in flocculator-clarifiers and multimedia filters. RoQuest 6000 is NSF approved.

INJECTING

RoQuest 6000 contains a ferric component that requires a minimum of 20 ppm of alkalinity to maintain an ideal pH. For feedwaters with lower alkalinity values, we recommend sending a sample into the Avista laboratory for testing. 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 6000 dose ranges from 2 to 35 mg/l. Approximately 0.25 mg/l of alkalinity expressed as calcium carbonate is required per mg/l of RoQuest 6000. Following coagulant addition, a minimum of 25 mg/l of residual alkalinity is required. Significant overdosing of RoQuest 6000 may cause degradation in the quality of the filtered water.

DILUTION

RoQuest 6000 should be fed neat if possible. When dilution is necessary, dilute no more than 4:1 with RO permeate or deionized water.

CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Clear to amber liquid
pH (1% solution)	2.0 – 3.0
Specific gravity (@25°C)	1.35 – 1.60

PERFORMANCE BENEFITS

- 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, 5100, and 7000.

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	500 lb	200 kg	200 kg
IBC tote	2500 lb	1500 kg	1500 kg



CERTIFIED TO
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.

GLOBAL HEADQUARTERS

Avista | Center of Excellence
Avista Technologies, Inc.
140 Bosstick Boulevard
San Marcos, California 92069
info@avistatech.com
☎ +1 760 744 0536

ASIA

Avista Technologies Singapore, Pte Ltd.
60 Albert Street,
#14-01 OG Albert Complex
Singapore 189969
info@avistatech.com
☎ +65 9729 4536



AvistaMembraneSolutions.com

