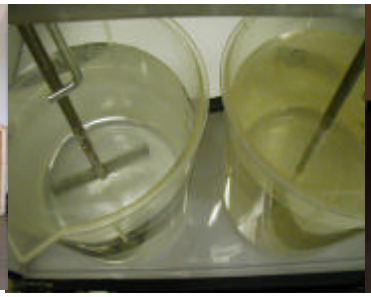
RoQuest® Coagulant

Selection Guide

Avista Technologies formulates a variety of liquid coagulant/flocculant chemicals under the RoQuest name. RoQuest 3000 is a blend of organic polymers while the RoQuest 4000, 5000, and 6000 are a blend of organic coagulants and ferric sulfate.

RoQuest formulations change the behaviour of particles and colloids which normally exhibit negative charges in naturally occurring feed waters. Because like charges repel each other and unlike charges attract each other, the addition of the positively charged RoQuest polymer allows the negatively charged particles to clump together. This creates larger particles which are more readily retained in the multimedia filter (MMF), resulting in improved MMF filtration.

Studies have proven that MMF performance without coagulant addition will remove approximately 35% - 50% of the feedwater particulates. A nominal dosage of a RoQuest coagulant may allow the MMF to remove up to 98% of the particulates, resulting in improved effluent turbidity and reduced SDI values. The resulting improvement in filtrate quality positively effects the downstream filtration equipment including reduced cleaning frequencies and longer system run times of membrane systems.

For use in flocculators/clarifiers			*Selection of Coagulants & Flocculants*				
For use in direct filtration applications			Limits				
			2 NTU	<10 units of colour	<10 NTU	> 10 units of colour	>10 NTU
Product Name							
RoQuest 3000	✓		✓	✓			
RoQuest 4000	✓				✓	✓	
RoQuest 5000	✓				✓	✓	
RoQuest 6000		✓				✓	✓

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See Also:

Individual product datasheets for particular properties and application notes for each product. Technical support section which provides information on how coagulants work, a guide to selecting and optimising coagulant dosing.

The Avista Advisor 3 software is also available to allow you to estimate your required coagulant dose. Jar testing and pilot filtration study services are available, to confirm product effectiveness and dose rates.

Avista Technologies can carry out laboratory jar test studies to compare the relative effectiveness of the coagulants using particle counting and turbidity measurements or SDI. Pilot filters are available to allow side by side trials with various products.

Product approvals have been granted by water regulators, membrane manufactuers and industry bodies. Please contact your local representative for up to date information.

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