



QuatKill® & QK1000

Quat Measurement and Neutralization

ChemTreat's QuatKill®

is an innovative colorimetric test kit that measures free quat concentration in wastewater treatment systems, delivering fast results over a wide concentration range.

- Measures free quat residuals
- Wide testing range (1-50ppm)
- Provides quick results (less than one minute)
- Small sample utilization (10mL)
- Ammonia in the water will not interfere with testing at typical concentrations



QK1000 Solution

is a proprietary formulation that rapidly and efficiently neutralizes cationic biocides*. When used in combination with QuatKill®, QK1000 can provide rapid neutralization of quats in wastewater or other industrial process water systems.

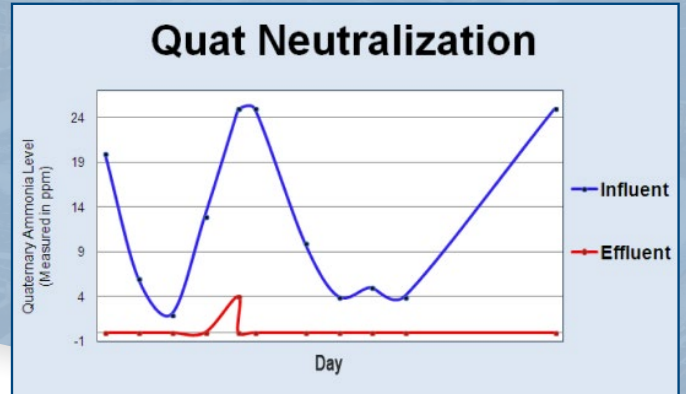
- Biodegradable
- Will not harm beneficial microorganisms typically found in wastewater systems when used at the recommended dosage
- Water-soluble, no total dissolved solids added
- Not adversely affected by ammonia at concentrations typically encountered in wastewater systems
- Available in drums & totes
- Works on a broad range of cationics

Treatment with QK1000

- Utilizes a simple pump and drum setup
- Provides no added solids to the treatment of water

* 1:1 ratio of reaction

ChemTreat cannot guarantee results. Results may vary.



Prominent Packaged Foods Company's Wastewater Quat Problem Is Resolved By ChemTreat's Quat Test Kit & QK1000 Solution

A leading food processing company had a problem. Their need to meet safety and cleanliness levels meant an increase in their use of biocides to satisfy these more restrictive

standards. However, their ability to effectively eliminate bacteria came with a reduction in needed bacterial action in their effluent wastewater system.

Non-neutralized quats in the wastewater at the company's NC food plant were eliminating needed digesters. Existing testing methods produced inaccurate quat measurements, meaning proper treatment was both wasteful, expensive, and created a conflict between the waste processing and cleaning departments. Using ChemTreat's Quat Test and

QK1000 treatment solution, quaternary ammonia levels in the Company's wastewater stream were effectively reduced to zero with the proper feed of QK1000. This simple down feed process at a 5X level created additional savings and kept wastewater system performance at a high level when compared with a more expensive, proposed clay-based solution.

Day	Quaternary Ammonia (ppm)			QK1000
	Influent	Effluent	Limits	Daily Feed Rates (GPD)
1	20	0	<0	5
3	6	0	<0	5
5	2	0	<0	5
7	13	0	<0	4
9	25	4	<0	3
9	25	0	<0	12
11	25	0	<0	12
13	10	0	<0	6
15	4	0	<0	6
17	5	0	<0	6
19	4	0	<0	6
21	25	0	<0	8

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