



AQUA-KEM 380c

Oxidizing Liquid Chlorine Dioxide Based Cooling Tower Biocide

DESCRIPTION	AQUA-KEM 380c is a chlorine dioxide based biocide designed to deliver lethal dosage of biocide to protect cooling tower systems. Chlorine dioxide is a superior oxidizing agent, 20 times more powerful than chlorine. AQUA-KEM 380c therefore offers protection similar to chlorine at a very low dosage. AQUA-KEM 380c is formulated as a stable chlorine dioxide solution, which can be used directly as a stand-alone biocide or a high performance and economical biocide when used together with a precision activator, AQUA-KEM 380c is ideal for use in once through cooling system treatment for sea clamps, mussels and large cooling system for micro biocide fouling.
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BENEFITS	- Very low dosage required, economical, low odor and fast action biocide.
	- Does not produce trihalomethane (THM) and is not affected by pH, ammonia
	- When used together with a chlorine dioxide activator, will provide a high performance, low cost treatment with a negligible chlorine residual by-product, suitable for once through systems
	- Provides protection against bacteria, molasses and algae.
	- Environmentally friendly and is safe to be discharge to the sewers.

DOSAGE	Application	Dosage	Frequency
	Manual slug dose in cooling tower	10 to 15 ppm water volume	Fortnightly
	Dosing pump without activator	25 ppm of makeup water volume	per minute
	Dosing pump dosing	5 to 10 ppm water flow volume	per minute
	Activator	30 ppm water flow. volume	per minute
	Subsidiary chlorine biocide	50 ppm water flow volume	per minute
	Initial treatment program start-up	50 ppm water volume	

PROGRAMME	When used AQUA-KEM 380c with normal HVAC towers, dose as per recommended dosage. When used in once through systems, dose AQUA-KEM 380c and AQUA-KEM 280c, chlorine dioxide activator using a dosing system 3 to 5 meters away from the area which required treatment. For mom effective treatment, use together with AQUA-KEM300c, which is dosed together. A dechlorination chemical AQUA-KEM 282c should be introduced at the outlet of the treatment system at a dosage of 10 ppm AQUA-KEM 282c to 1 ppm chlorine residual. Control residual of chlorine dioxide reserve should be 0.1ppm
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STORAGE	AQUA-KEM 380c is available in 30kg carboy or 250kg drum. Store at a cool and dry location and keep container lightly closed. AQUA-KEM 380c is an alkaline oxidizing agent and should be treated as such hazardous material
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PROPERTIES	Appearance	Yellowish liquid
	Odor	Characteristic chlorine odor
	Specific Gravity	1.25
	pH as product	8.5 to 10.0
	Boiling Point	120°