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# Chlorine Dioxide for Drinking Water Disinfection

## <Brief Introduction of Chlorine Dioxide Disinfectant>

Chlorine dioxide, a new type stable disinfectant, has been recommended to the world as class A1 disinfectant by WHO. It is being applied in many fields including food processing and drinking water treatment in western developed countries with its broad spectrum and high efficiency. It is the safest disinfectant for food. Chlorine dioxide can kill all the virus and bacteria including bacterial spore without causing any hurt to human or animal body, pollution to the environment. Chlorine dioxide is a good disinfectant, not only makes the factory water up to the national drinking water standard, and also greatly improve the quality of drinking water, satisfying people's demand for high quality life water.

## <Usage & Dosage>

### Mother Liquid Preparation

Add 200g (or 500g) disinfectant into 10kg (or 25kg) water, stir for 5~10 minutes to completely dissolved. This solution of CLO<sub>2</sub> is 2000mg/L. The mother liquid can be diluted and applied according to the following chart. IMPORTANT NOTE: DO NOT ADD WATER INTO POWDER

Disinfection Object		Concentration (mg/L)	Time (minutes)	Usage
Water Treatment Unit	High Quality Groundwater	0.1-0.4	30	For plants equipped clean-water reservoir, the dosing point should be water inlet of clean-water reservoir or the water pipe after filtering; for direct-supplied water, dose the disinfectant into feed piping.
	Groundwater	0.2-0.7	30	
	High Quality Surface Water	0.5-0.8	30	
	Surface Water	0.8-1.3	30	
	Groundwater in Epidemic Area	1-5	30	
Bottle Water & Barreled Water Plant	Algae Removal & disinfection for Raw Water	0.2-1	30	Dosing disinfectant solution directly according to the quality of raw water.
	Deodorization & Disinfection for Production Environment	100-200	30	Spraying or Mop the Floor with Disinfection solution
	Disinfection for Floor and Walls	100-200	10-15	Scrubbing
	Hands Washing	30-100	5	Soaking and Airing

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Disinfection Object		Concentration (mg/L)	Time (minutes)	Usage
Bottle Water & Barreled Water Plant	Work Clothes	60	5	Soaking in the disinfection after cleaning, then Airing.
	Package (including barrels and bottles)	50-100	For production lines installed with spraying device, just spray the disinfection liquid (50~100mg/L) into bottle and it'll be good for holding water.	
		80-150	For production lines without spraying device, soak the package in the solution for 10 to 30 minutes and then swash by bacteria free water.	

**<Notes>**

1. This product is hygroscopic, it will deliquesce and lose efficacy when exposed to air. It should be finished at a time when package is open.
  2. Slowly add the powder/tablet to water (DO NOT ADD WATER INTO POWDER/TABLET).
  3. Do not store or transport the products when there are packaging damages; and do not store or transport the products together with acid content; avoid damp.
  4. Store the products in cool and dry places, seal and keep it away from sunlight.
  5. Place the products out the reach of children
  6. Do not scatter the chlorine dioxide directly to soil, or it will reduce disinfection effect.
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