



ClO₂

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CHLORINE DIOXIDE CATALOGUE

YEARUP

Water, Surface & Air Disinfection

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Chlorine Dioxide(ClO_2)
is a low dose yet powerful disinfectant
for water, surface & Air treatments

This is a permanent and effective
DISINFECTANT
whilst respectful to the environment

◆ Low dose ◆ High effectiv ◆ NO Trihalomethanes (THMs)



SUPPORT OEM & ODM

ClO₂ PRODUCTS

FOR ClO₂ Solution Generation

- ▶ Effervescent ClO₂ Tablet
- ▶ ClO₂ Powder

FOR ClO₂ Gas Generation

- ▶ ClO₂ Gel Powder
- ▶ ClO₂ Granuels
- ▶ ClO₂ Slow Release Pouch



YEARUP ClO₂ 1gram tablets are recommended for **Sanitation**

Our ClO₂ Products have passed the following tests:

“Stability Test”

“Toxicology Test”

“Effectiveness on Disinfect Hard Surface”

“Effectiveness on Disinfect Fruits and Vegetables”

“Effectiveness on Disinfect Medical Instruments”

“Effectiveness on Disinfect Eating Utensils”

“Effectiveness on Disinfect Air”

“Effectiveness on Disinfect Drinking Water”

“Effectiveness on Disinfect Swimming Pool”

“Effectiveness on Disinfect Sewage Of Medical Institutions”

“Disinfection of Bacterias”

“Validation of disinfection efficiency of sterilization and disinfection instruments”

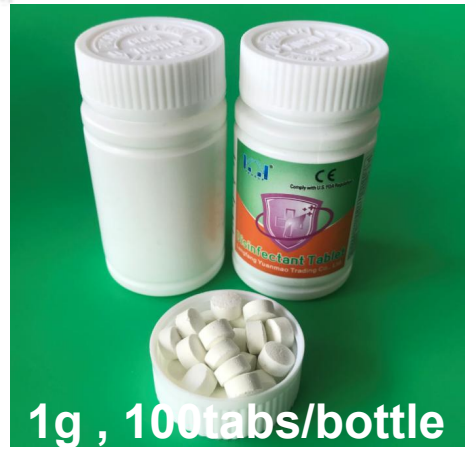
“Virus Inactive Test”



FOR ClO₂ Solution Generation ClO₂ Effervescent Tablet

Chlorine Dioxide Product Specification

ClO ₂ Tablet	ClO ₂	Concentration in 1Litre Water	Package
	Generating Rate		
0.5Gram Tablet	4%	20ppm	◆ 40 Tablets/Bottle
			◆ 500g & 1kg/bag
1Gram Tablet	2.8%	28ppm	◆ 100tablets/bottle
	5%	50ppm	◆ 500g & 1kg/bag ◆ 25kg/drum
1Gram Tablet	10%	100ppm	◆ Single Pouch
			◆ Strip of 6 Tablets
			◆ 100 Tablets/Bottle
			◆ 500g & 1kg/bag
			◆ 25kg/drum
4Gram Tablet	10%	400ppm	◆ Strips of 4 Tablets ◆ 500Gram/Bag
5Gram Tablet	10%	500ppm	◆ Single Pouch
10Gram Tablet	10%	1000ppm	◆ Single Pouch
20Gram Tablet	10%	2000ppm	◆ Single Pouch
			◆ 5 Tablets/Strip
			◆ 25 Tablets/Bag
100Gram Tablet	10%	10000ppm	◆ Single Pouch
200Gram Tablet	10%	20000ppm	◆ Single Pouch





FOR ClO₂ Solution Generation- ClO₂ Powder

Chlorine Dioxide Product Specification

ClO ₂ Powder	ClO ₂	Concentration in 1Ton of Water	Package
	Generating Rate		
20Gram Powder	10%	2ppm	◆ 20gram/bag
500gram Powder	10%	50ppm	◆ 500gram/bag
1kg Powder	10%	100ppm	◆ 1kg/bag
25kg Powder	10%	2500ppm	◆ 25kg/drum
AB Powder	48%	480ppm	◆ 1kg/bag



500g&100gram/bag



Powder A-1kg/bag



Powder B-1kg/bag



FOR ClO₂ Solution Prepare



1
DISSOLVING
THE EFFERVESCENT
TABLET(S)
IN A VOLUME
OF WATER



2
PATIENT
A FEW
SECONDS



3
THE SOLUTION
IS READY
TO USE



INDIVIDUAL PROTECTION EQUIPMENT





ClO₂ Solution Application





FOR ClO₂ Gas Generation- Slow Release ClO₂ Pouch

Chlorine Dioxide Product Specification

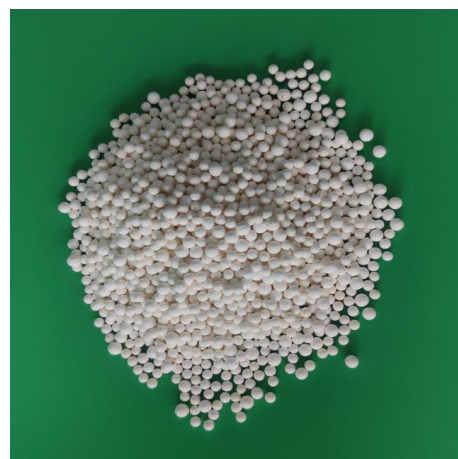
Other ClO ₂ Products	ClO ₂ Generating Rate	Applicaation	Package
Gel Powder	3%	Air disinfection Odor remove	◆ 20gram/bag
Slow Release Powder	3%	Air disinfection Odor remove	◆ 5gram/bag
Absorbent Balls	3%	Air disinfection Odor remove	◆ 20kg/drum



Gel Powde, 20g/bag



Slow Release powder



Absorbent Balls

Application

- ▶ Disinfect and remove odor in home and office;
- ▶ Personal Disinfection
- ▶ Disinfecting and fresh-keeping during the transportation and storage of vegetable and fruits;
- ▶ Disinfect and remove odor In freezer, refrigerating cabinet; Fresh-keeping and removing odor of meat and processed foods during storage at cooling condition.



AREAS OF APPLICATION



WATERS

Drinking Water, Tank Water, Swimming Pool



FOOD & BEVERAGE PROCESSING

Disinfection to equipment, surfaces & raw materials during manufacturing and processing to ensure food hygiene.



POULTRY & AQUACULTURE

Disinfection Treatment for Farms, Ponds, and Breedings.



AGRICULTURE

Soil Disinfection, Plants disinfection, Seeds Disinfection



SANITATION, EPIDEMICS & HOSPITAL

Daily disinfection to prevent cross infection



WATERS

Drinking Water, Tank Water, Swimming Pool, Cooling Water, Waste Water



APPLICATIONS

- ◆ Drinking water
- ◆ Tank water
- ◆ Swimming pool
- ◆ Cooling water treatment
- ◆ Waste water treatment

ACTIVE AGAINST

- ◆ Biofilm
- ◆ Bad odor
- ◆ Bacteria and viruses
- ◆ Algae and spores
- ◆ Phenols
- ◆ Haloacetics (AHA)
- ◆ Control of nitrification

BENIFITS

- ◆ Low dose
- ◆ High effectiv
- ◆ NO Trihalomethanes (THMs)



Chlorine Dioxide has a long history of use in drinking water disinfection (US since 1944). It is a **broad spectrum** disinfectant used as a primary disinfectant in drinking water, as ClO_2 kills bacteria, viruses, cysts and /algae (pseudomonas, e.coli, holera, cryptosporidium, giardia, etc...).

It also **prevents and removes bio-film in pipe line**. ClO_2 is strong oxidizing agent. This means that chlorine dioxide kills microorganisms by disruption of the transport of nutrients across the cell wall, not by disruption of a metabolic process.

This can eliminate the risks of excessive THM and bromate levels in heavily chlorinated water. It is a safe and green disinfectant recommended as **Class A1 Disinfectant by WHO**.





YEARUP Mono ClO₂ Powder, ClO₂ 1g tablet and 2-Component ClO₂ Powder are recommended for **Water Treatment**

USAGE & DOSAGE of YEARUP ClO₂ for Water Treatment

Mother Solution Prepare: put 1KG powder in 1ton water, we get 100ppm ClO₂ solution after 5 minutes.

Drinking Water	Dosage ClO ₂ 1kg/water(tons)	Concentration (mg/L)	Time (min)	Usage method
tap water	1/500	0.2	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.
Secondary Water Supply	1/500	0.2	30	
Underground Water	1/333	0.3	30	
Surface Water	1/250	0.4	30	
Mountain Spring Water	1/200	0.5	30	
Water for Epidemic Area	1/100	1	30	
Sewage Water Treatment	Dosage ClO ₂ 1kg/water(tons)	Concentration (mg/L)	Time (min)	Usage method
Normal Water	1/200-500	0.2-0.5	30	Add equally according to water volume
Slightly Polluted Water	1/50-100	1-2	30	
Heavy Polluted Water	1/12.5-50	2-8	30	
Industrial Circulating Water Treatment	Dosage ClO ₂ 1kg/water(tons)	Concentration (mg/L)	Time (min)	Usage method
Continuously Dosing	1/333-500	0.2-0.3	/	Continuously add to water
Intermittent Dosing	1/200-250	0.4-0.5	/	Calculate the daily requirements and add equally within 4-8 hours
Pulse Dosing	1/50-100	1-2	/	Add once every 7-10days
Remove Algae	1/12.5-20	5-8	/	Add once every 3days
Swimming Pools	Dosage ClO ₂ 1kg/water(tons)	Concentration (mg/L)	Time (min)	Usage method
Pools Water in Spring, Autumn and Winter	1/12.5-33	0.3-0.8	30	Splash into the swimming pool
Pool Water in Summer	1/100-200	0.5-1	30	Splash into the swimming pool



POULTRY & AQUACULTURE

Disinfection Treatment for Farms, Ponds, and Breedings.

APPLICATIONS

- ◆ Drinking water distribution network
- ◆ Disinfection of all types of surfaces & equipment (Soils, materials, etc.)
- ◆ Hatchery
- ◆ Breeding house
- ◆ Slaughter house
- ◆ Ponds
- ◆ Algae & biofilm remove

In Breeding industry, it is clear that a disinfected environment offers much **better production performances and profitability.**

Application of ClO_2 disinfectant at different stages of production completely eliminates pathogens such as: **E. Coli, Salmonella, Listeria, Aspergillus, Penicillium, Staphylococcus, etc.**

Regular treatment and shock treatment in epidemic can **maintain health and prevent the spread of disease.** Thus to significantly **reduce animal production cost.**





YEARUP 1g, 4g, 5g, 10g, 20g ClO₂ Tablets are used for **Poultry and Livestock**. Here we take the 10g tablet as example for application

USAGE & DOSAGE of YEARUP 10G ClO₂ Tablet for Breeding

Mother Solution Prepare: put 1 tablet in 10L water, we get 100ppm ClO₂ solution after 5 minutes.

Disinfection Object	Dosage ClO ₂ 1tablet/water(kg)	Concentration (mg/L)	Time (min)	Usage
Sick period drinking	1/200	5	When drinking	Add water to water pipes when drinking
Drinking water for animal	1/500	2	When drinking	Add water to water pipes when drinking
Water Supply Pipes	1/10	100	10	Add 100mg/L solution to empty pipes, disinfect for 20 minutes and rinse
Surfaces & Equipments & Animal House	1/10	100	10	Dry after immersing
Poultry eggs,hatching room	1/25	40	10	Spray or wipe
Deodorization and disinfection on excrement	1/4	250	Once a day	Spray until soaken
Operater handwashing, Work clothes	1/25	40	5	Natural dry after immersing

Notes:

- 1.It is best to add 1g product(solute in water) into 20kg forage for pig or cattle and stir averagely
- 2.Environment disinfection should be carried out in the morning or afternoon to avoid sunshine
- 3.This product will not be mixed together with other medicines to use.



YEARUP ClO_2 Powder and 1gram tablets are recommended for **Aquaculture Application**.

USAGE & DOSAGE of YEARUP 1GRAM ClO_2 Tablet For AQUACULTURE

Note: Tablet can be used directly, powder disinfectant should prepare mother liquid first.

Aquaculture		Dosage	Usage
Fish	Soaking	Fry 1g/m ³	soaking for 5-10minutes
		Fingerling 1.5g/m ³	soaking for 5-10minutes
	Prevention	150g/1000m ³	Splash evenly into pond every 2 weeks
	Treatment	300g/1000m ³	Splash evenly into pond once a day, repeat for 2 to 3days
Shrimp, crab trionyx and shellfish	Prevention	150g/1000m ³	Splash evenly into pond every twenty days
	Treatment	300g/1000m ³	Splash evenly into pond once a day, repeat for 2 to 3days
Pond disinfection		450/1000m ³	Splash evenly into pond and put the fish into pond after 7days.
Fish bait disinfection		Powder: Bait=1:400	Mix the bait with disinfectant, and continuous feeding for 3 days.
Algae removal		450/1000m ³	Splash evenly into pond

Mother Liquid Preparation

Add 500g powder to 20kg water (DO NOT ADD WATER TO POWDER/), stir for 5 to 10 minutes to completely dissolve. This solution is 2000mg/L. The mother liquid can be diluted and applied according to the above chart.