

SCS 10k Disinfection Chemical of upto 10,000 PPM

SCS 10K is a two component (A & B) disinfection chemical which is chlorine dioxide (ClO₂) in powdered form of strength upto 10,000 PPM. SCS 10 K has a wide range of applications ranging from disinfection of water to a bleaching agent for industries. 1Kg SCS-10K disinfects upto 15 lakhs liters of water. It has huge benefits for human health as it is not carcinogenic like TCCA & other chlorine related disinfectants.

APPROVED/ RECOMMENDED IN CATEGORY -1 FOR DISINFECTION OF WATER FROM MINISTRY OF DRINKING WATER AND SANITATION, GOI (WATER QUALITY SECTION) VIDE FILE NO- W-11042/22/2015-WATER-II/81, EOI NO-W-114.



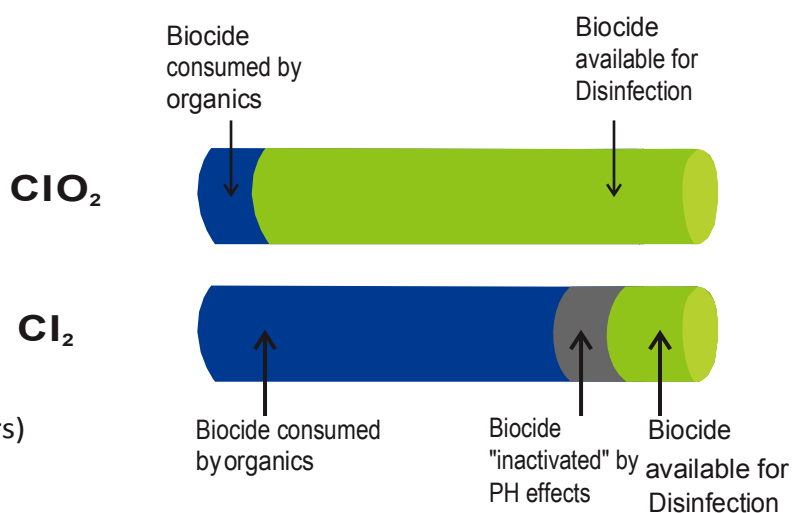
- It has a longer residual effect of 16 hrs in water compared to only 2 hrs of sodium hypochlorite/TCCA
- 99.9% effective against all water borne microorganisms (spore forming bacteria, viruses, protozoa, fungi and yeast)
- Very short contact time (1-5 minutes)
- Shelf life – 18 months
- Destroys algae related taste and odour compounds
- Kinetic strength of the SCS 10K solution remains same for 30 days of the solution
- Does not react with water to form hypochlorous acid (no free chlorine)
- Chlorite and chlorate building heavily suppressed
- SCS 10K doesn't chlorinate organic materials

- One kg SCS 10K is prepared in 25-liter of water
- One Kg of SCS 10K can disinfect 15 lakhs liters of water to disinfect the same amount of water you will need 20 kg of sodium hypochlorite, TCCA and Potassium Permanganate
- 1 Kg SCS 10K disinfects upto 15 Lakhs liters of water
- Made in India (Indigenous product)
- Powerful inorganic oxidizing agent and free radical with residual disinfection capacity
- Very easy transportation (Due to powdered form)
- Steady bactericidal efficacy within a board pH
- More disinfection and less chemistry
- Decreases THM, HAA, other organic compounds with toxic or carcinogenic properties
- European Standard DIN EN 12671 Approved by EPA (USA)
- Strength upto 10,000 PPM per liter



Application:

- Disinfection of water
- Swimming Pools
- Bleaching Agent for Industries
- Food Processing
- Dairy Farms
- Railways
- Poultry farms
- Pharma Industries & Hospitals
- Horticulture
- Beverage Industry
- Disaster Management
- Thermal Power Plants (Cooling Towers)
- Air Deodorization
- Aquaculture
- Portable Water Treatment



AVAILABLE IN 1 KG, 5 KG OR AS DESIRED

CRITERIA	SCS 10 K CHLORINE DIOXIDE	TCCA/ SODIUM HYPOCHLORITE/ POTASSIUM PERMANGANATE
Shelf life	18 months for powder	6 months
Residual effect in water	upto 16 hrs if not consumed	2 hrs
Inventory space	Very less (Due to Powdered Form)	Needs big storage for the liquids to store
pH Range	Disinfection is effective and constant between a pH values of pH 4 to pH 10.	Disinfection only at pH value less than 7.5.
Contact time for disinfection.	1 to 5 minute	30 min to 1 hr
Level of corrosion.	N.A.	High corrosion level.
Investment in plant and Machinery.	Nil	High frequent failure electric dozer
stability at higher temperature	Scs-10K /Chlorine Dioxide remains stable even at higher temperature and does not dissipate as fast as chlorine	Temperatures > 30 °C rapidly disturb chlorine.
Operational cost	Negligible	High
Transportation	Very easy because with one kg of Clo ₂ – 25 ltr solution can be made of upto 10000 PPM.	Very difficult because in liquid form less strength & schemes are in Rural Areas.
Quality	Assured	Due to by product very uncertain local product
Standard	DIN EN 12671 : 2000-11	IS: 1065 – 1989
Build-up of carcinogenic THM's, HAA's and MX.	No THM, HAA or MX build-up in water. *(Ref WHO,EPA manual).	Carcinogenic compound formation in presence of organic. Forms THM,HAA or MX (Ref - WHO manual).
Biofilm eradication in the water distribution system.	Chlorine Dioxide penetrates and completely eradicates biofilm.	Limited eradication due to lack of penetration of the biofilm
Build-up of irritating chloramines effecting eyes, mucous glands, tissues, skin and mucous membranes.	No reaction with primary of secondary Amines. NO build- up of chloramines. No irritation to eyes, mucous glands, tissues, skin, membrane sat user concentrations.	All Amines are transformed to chloramines when reacting with chlorine causing problems for the users.
Deodorizing	Deodorizing characteristics. No organoleptic smell and taste problems through reaction with Phenols, Amines and Algae.	Produces organoleptic smell and taste problems through reaction with Phenols, Amines and Algae.
Biocidal and anti-viral effectiveness.	Excellent biocidal and anti-viral characteristics.	Biocidal characteristics. Bad anti-virus characteristics. Biocidal characteristics significantly decrease when pH value exceeds 7.5.
Algicidal effectiveness.	Excellent algicidal effectiveness and permanent disinfection at 0.08 – 0.15 mg/L dosage.	Effective only when using high concentrations of chlorine which are not recommended as user levels.
Oxidation effectiveness.	Up to 260% stronger oxidation compared to chlorine. Oxidation takes place by oxygen.	Strong oxidation. Only oxidizes by build-up of AOX.
Hazardous nature	Non hazardous product hence not required.	Hazardous not required
Operational safety	Not required	High
Licenses & approvals	Not required	Not required
Immunity building by microbes & organisms	No immunity development by bacteria's.	Performance drops after few days.
Reaction with Ammonia	Does not react	Reacts with ammonia and required to Use breakpoint chlorination
Trained Manpower requirement	No	Required
Requirement of neutralization system	No	No
Fire or explosion risk	Nil	Negligible

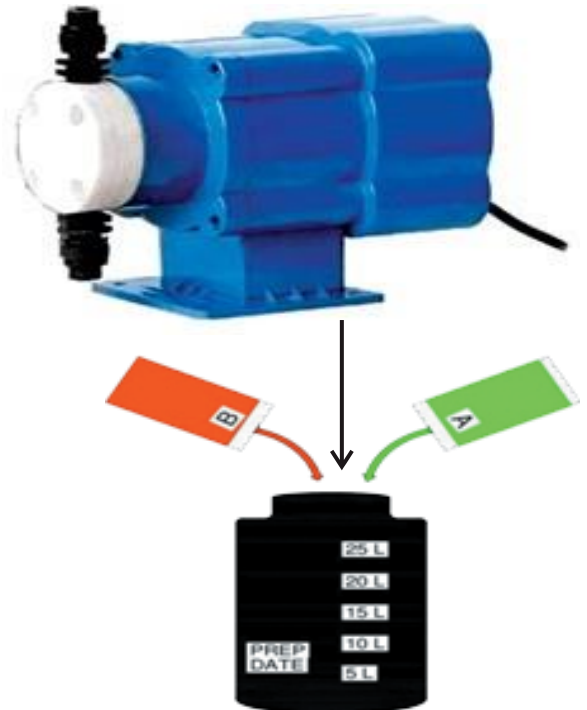
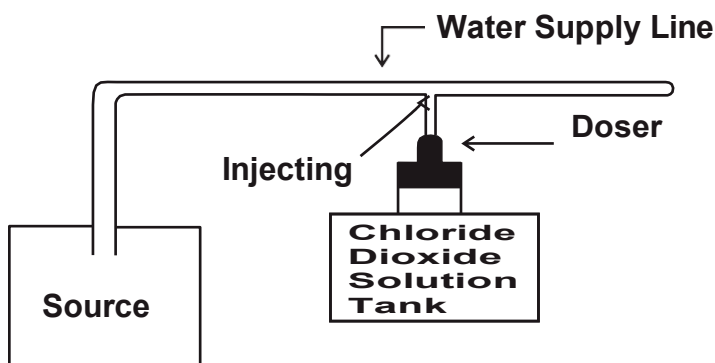
“INSTRUCTION MANUAL FOR SCS 10 K”

1. SCS 10K (1 % Chlorine dioxide in powdered form) is a disinfection chemical in 2 Component (A&B) powdered form.
2. 1 Kg of SCS 10K is prepared in 25 liter of water; first put Component B in the water container than put Component A in the water container.
3. The Solution should be prepared in black color container & the lid should be closed.
4. Close the lid of the container & leave the solution for four hours. A solution of upto 10000 PPM per liter of liquid chlorine dioxide is ready to use/dose.
5. The solution has a strength of 30 days.
6. Dosing



SOLUTION TANK

We can use any dosing for capacity 1-10 Liter per hour. Existing dosing pump that are presently used are compatible with Chlorine dioxide. Simply dose the chlorine dioxide solution in the pipeline depending on the dose requirement (0.1-0.5 PPM).



SOLUTION TANK

BHARTI WATERS PVT. LTD.

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 Website: www.bhartiwaters.com
 CIN NO: U15543DL2004PTC128953



Certificate No. 1100117056K
 ISO 9001:2015
 Quality Management



Certificate No. 1100117057K
 ISO 14001: 2015
 Environment Management



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 Occupational Health & Safety Management



Certificate No. 1100117059K
 ISO 22000 : 2005
 Food Safety Management

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