



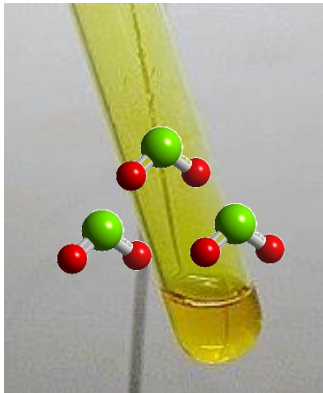
A WATER TREATMENT DIVISION

PA-WT-CLO2-001

Chlorine Dioxide, 0.3% Solution

An outstanding next-generation environmentally-friendly water treatment solution

- **Stabilized Chlorine Dioxide Solution, Safer for human and environmental**
- **Total Superior Disinfectant for Water & Air**
- **99.99% kill on Bacteria, Virus, Mold, Algae**



Overview of Product & Technology

Chlorine Dioxide 0.3% (3000ppm) solution that is even used on drinking water disinfection. Product is restructured and built to be safer e.g. Not Explosive and Not Corrosive. Can be delivered into system using simple dosing equipment to bring in the oxidizing and disinfecting capabilities to ensure safe water at all times.

Product is delivered in a safe transportation manner and does not require any pre storage. With the components brought on site, only requirement is water. This is unlike traditional treatments or agents. Product does not contain any free chlorine. With Chlorine Dioxide, disinfection are 10 times more powerful than the chlorine or other chlorine type disinfectant.

Product destroy all Surface & water borne Microorganisms (Bacteria, Virus, Yeast, Mould and Soft/Hard Biofilms). Product is generally a disinfectant that can be used on many applications. Most importantly it disinfects without producing any hazardous by products that contributes to risk of human health.

New Generation Air & Water Disinfection Solution

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Microbiological & chemical advantages

- Powerful inorganic oxidizing agent and free radical with residual disinfection capacity;
- 99.9 times % effective against all water-borne microorganisms;
- Very short contact time (2 to 10 minutes);
- Long residual disinfection capacity (up to 72 hours);
- High efficiency in the removal of iron & manganese compounds;
- Destroys algae-related taste and odour compounds;
- Higher yield (up to 260% more oxidation output compared to Chlorine);
- Effectively removes prophylaxis on biofilms;
- Steady bactericidal efficacy within a broad pH bandwidth (pH 4 to pH 11);
- No build-up of resistances in microorganisms.

Delivery mechanism

Extensive kinetic half time (>30 days) of stock solutions;

- Easy to apply (standard industrial dosage equipment);
- High solubility in water, can be applied in a short time;
- Up to 72 hours biocidal life when added to water;
- Produces pure ClO₂
- High yield

Health & environment advantages

- Does NOT react to water to form hypochlorous acid
- Unlike chlorine, it does NOT react with ammonia, ammonium or most organic compounds;
- Chlorite & chlorate building are heavily suppressed;
- Eco-friendly, NO undesirable residues;
- Single-product water cleaner & conditioner;
- Effective against airborne pathogens when “misted”;
- Toric Oxide™ does NOT chlorinate organic materials;
- Decreases THM's, HAA's, MX and other organic compounds with toxic or carcinogenic properties.

Economic advantages

- More disinfection, less chemistry;
- No investment in a conventional ClO₂ generator;
- No ClO₂ generator maintenance and re-certification;
- Less security measures;
- Lower risk and liability insurance policy;
- Less training, certification and re-certification of qualified personnel;
- Environmental, health & safety factors;
- Lower hazardous material transportation costs;
- No additional chemicals (e.g. pH-level stabilizers) required;
- High material tolerance;
- No corrosion.

One Solution, Various Application

Water



Fogging

Surface



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Other Application



Cooling Tower



Fountain



Drinking
Water



Fruits Washing



Maritime



Livestock



Horticulture



Waste Water
Disinfection



Hospital



School



Residential



Offices



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