

Advantages of Chlorine Dioxide (ClO₂) over Hydrogen Peroxide & Chlorine Treated Water



1. Unparalleled effectiveness against a broad spectrum of micro-organisms (bacteria, yeast, mold, algae, viruses) at low concentrations & short contact time.
2. Destroys Biofilms.
Biofilm is a complex aggregation of micro-organisms which excrete a protective and adhesive slime. It plays a key role in the proliferation of waterborne pathogens. The micro-organisms living within the protection of the biofilm cannot be penetrated and destroyed by Hydrogen Peroxide or Chlorine. ClO₂ is a water-soluble gas, allowing it to attack and destroy biofilms.
3. ClO₂'s kill is both fast and strong.
4. ClO₂ does not lose its effectiveness in the face of organic matter, unlike Hydrogen Peroxide and Chlorine.
5. Oxidizes odor causing compounds such as sulfur.
6. Oxidizes metals found in water such as iron and manganese.
7. Works at a wide pH range. Organic material raises pH.
8. As a water-soluble gas, ClO₂ treats the entire closed water system, including the surfaces that do not get wet (upper pipes and holding tanks).
9. ClO₂ is registered with EPA. It has passed the EPA's stringent DIS/TISS guidelines for use as a disinfectant and as a food contact surface sanitizer.
10. ClO₂ does not make carcinogenic trihalomethanes that get washed down the drain and deposited in the environment. ClO₂ breaks down to water, oxygen and table salt. This makes it much less corrosive to equipment and a superb environmental choice.