

## Green Dioxide-Chlorine Dioxide for Soft Drink Industries

Soft drinks generally refers to non-alcoholic beverages, according to China's food standards, (soft) drinks including: drinking water, carbonated drinks, milk drinks and milk drinks materials, plant protein drinks, fruit (vegetable) juice and containing fruit (vegetable) juice drinks, tea drinks. Soft drink production process generally include: water treatment, raw materials, processing, allocation mix, sterilization, packaging, storage and other sectors.

Chlorine dioxide is confirmed by the United Nations World Health Organization (WHO) and FAO (FAO) as the AI level of disinfectant, it is broad-spectrum, high efficiency, non-toxic, no residue, and no "three-induced effect." In addition to chlorine dioxide as an environmental disinfectant used outside, also approved by China's Ministry of Health as drinking water treatment agent, it is the best alternative of other disinfectants as bleached powder, calcium hypochlorite or sodium dichloroisocyanurate. Chlorine dioxide applied to (soft) drinking water quality and equipment disinfection, environment, staffs, and many other aspects disinfection.

### Disinfection Application

1. Soft drinking water, sterile water: add chlorine dioxide into running water with concentrations of 0.2-0.8mg / l, reaction time more than 30 minutes.
2. Pretreatment of raw materials: with 10-20mg / l of chlorine dioxide solution soaking vegetables, fruits, nuts and other solid materials more than 30 minutes.
3. Pipelines, tanks and other disinfection with CIP systems: A 50-100mg / l chlorine dioxide cycle for more than 20 minutes.
4. The factory environment, warehouse and other disinfection: 100-200mg / l chlorine dioxide disinfectant spray.
5. The workshop floor, walls, doors, windows and other production equipment, conveyor belt surface disinfection: 100-150mg / l chlorine dioxide disinfectant wipe.
6. Footwear pool, vehicles imported into the plant disinfection pool: adding 100-200mg / l chlorine dioxide disinfectant, change by shift.
7. Operator hand disinfection: clean, and then soak in 100 mg / l of chlorine dioxide disinfectant.
8. Working clothing, gloves, etc.: soaking in 10-30mg / l chlorine dioxide disinfectant 20 minutes, dry.
9. Engineering equipment and transport vehicles disinfection: 50-100mg / l chlorine dioxide disinfectant sprays or wipes