



## LIVE STOCK DAIRY PRODUCTS

## Application areas for CHLORINE DIOXIDE in Dairy farm

In the dairy industry there is a direct correlation between the amount of water consumed by cows and the resulting amount of milk they produce on a daily basis. There are no common standards for disinfecting the water that a cow consumes.

### Calving pens

Prevention and control of disease in livestock husbandry can make a tremendous difference to overall performance of young stock. The use of untreated water in open water troughs may lead to the introduction of pathogens coming from the water supplies and faecal contamination. The temperature and humidity of calving pens, particularly during summer will create a breeding ground for bacteria. Chlorine Dioxide in water treatments can be effectively applied in these areas to remove this bacterial contamination. (E coli and salmonella infections can be effectively eliminated by fogging.)

### Milk Producers

Our water treatment biocide, Chlorine Dioxide (CDD 5000) provides continuous, Year Round protection for breeding stock via a simple and easy to use automatic dosing system that may also be used to dose vitamins and vaccines where necessary.

### Hand Reared Calves

Mortality, feed conversion and overall welfare are dramatically improved by the addition of Chlorine Dioxide to calf drinking water, particularly at an early age. By taking a proactive approach to drinking water sanitation, many operators have reduced or eliminated costly antibiotic treatments, and improved compliance with supermarket and consumer requirements.

### Milking Cows

Chlorine Dioxide is applied to cow's drinking water in order to effectively combat the bacterial contamination that builds up in water lines, which reduces water consumption, impacting on milk production, while causing cross-contamination of infection throughout the system.

A unique feature of Chlorine Dioxide is its ability to be used as an antiviral/antibacterial fogging agent whilst the stock are in-situ. Chlorine Dioxide contains a complex antibacterial agent that is non-harmful to the herd, at the operational dose levels. Regular fogging applications of Chlorine Dioxide are the ideal answer to disease outbreaks in a number of circumstances.



### Mastist control in Cows

CHLORINE DIOXIDE is recommended for the treatment of the cows for the problem of Staphylococcus aureus and Streptococcus agalactiae pathogens commonly known as mastist. The infection rates significantly reduces for the teats dipped with Chlorine Dioxide.

### The Biofilm Challenge in Dairy Farms

Biofilm is composed of mineral deposits on the inner pipe surface of drinker lines creating an environment in which bacteria (E-coli, etc.) and other microorganisms can thrive. Since 95% of all microorganisms are hiding in the biofilm, removal of the biofilm is imperative for persistent microbiological control of the drinking water. Slime grows very quickly in water systems. Planktonic cells flowing in the water clot together and form a layer of sessile cells, which attach to the inner walls of tubes and pipes. Colonies of cells grow rapidly, and attract more planktonic cells. The slime can grow and block free water flow, and forms a contamination which is a hazard for water quality. In existing water distribution systems, the distribution pipes are permanently contaminated with slime.

### Recommended Products

- CDD 5000
- CHLORITAB



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