POULTRY FARM APPLICATIONS:
- DRINKING WATER DISINFECTION & SANITATION
- COOLING PAD WATER TREATMENT
- WATER LINE & NIPPLE LINE CLEANING
- BIOFILM REMOVAL
- POULTRY HOUSE & EQUIPMENT DISINFECTION
- FOOTBATH & SURFACE SANITATION

What is Mixed Oxidant Solution?

MIOX Mixed Oxidant Solution (MOS) is an extremely powerful yet non-hazardous disinfectant that replaces conventional treatment chemicals. Generated on-site using a patented electrolytic process, MOS removes biofilm, decreases microbial load, improves water quality for animal health, and lowers corrosion rates.

MIOX systems are NSF61 certified for drinking water treatment. Mixed Oxidant Solution is a proven treatment for a more rapid and thorough inactivation of a wide range of microbial contaminants, including species highly resistant to chlorine.

IMPROVE ANIMAL HEALTH

MIOX Mixed Oxidant Solution (MOS) significantly decreases bacteria in poultry drinking water including coliform, E.coli, Pseudomonas aeruginosa, and other bacteria that affect chicken health. By cleaning water lines and cooling pads and preventing cross-contamination, poultry farms using MOS have decreased or completely eliminated antibiotics consumption.

REDUCE MAINTENANCE COSTS

MOS has been shown to remove and prevent the growth of biofilm, algae, and bacteria from coop surfaces and water lines.

ELIMINATE EXPENSIVE CHEMICALS

Eliminate the use of all other disinfectants, surfactants, and cleaners including corrosive chemicals for line flushing and cooling pads.

Use Mixed Oxidant Solution to replace a variety of chemicals:

- Hydrogen Peroxide
- Chlorine Dioxide
- Chloramines
- Calcium hypochlorite
- Bromine
- Sodium hypochlorite
- Iodine
- Quaternary ammonium

Up to 80% operational cost savings compared to conventional water treatment and disinfection methods.
CASE STUDY 1:  
Saved $5,000/cycle  
200,000 broiler farm  

PROBLEM  
• Bacteria load too high to count  
• Biofilm and algae growth clogging water lines  
• Antibiotic resistance  
• Ineffective treatment regimen  

RESULTS  
• 100% biofilm removal and prevention  
• Clean water lines, zero blockage  
• Reduced bacteria load to minimum levels  
• Improved mortality rates on “viral challenge” chicks  
• Reduced operational cost by 10%/cycle  

CASE STUDY 2:  
Decreased antibiotic use by 50%  
2 million broiler farm / 12 production sites ~235,000 flock/farm  

PREVIOUS DISINFECTION  
• Biofilm removal: Hydrogen peroxide, peracetic acid  
• Line cleaning: Glutaraldehyde, ammonia, iodine  
• During cycle: Sodium hypochlorite  

NEW DISINFECTION  
MIOX Mixed Oxidant Solution  

PROBLEM  
• Drinking water contaminated with coliform and E.coli  
• Blockage problem in water lines  
• Antibiotic resistance  
• Viral diarrhea  
• Cooling pads covered in algae  

RESULTS  
• Decrease in Total Bacterial Count including coliform, E.coli and fungi  
• Clean water lines, zero blockage  
• Decreased antibiotics by 50%  
• Improved flock health [FCR + mortality]  
• Surfaces and cooling pads clean and algae-free  
• Air sanitization through cooling pads