

Water Management - Chlorine Dioxide

Water Management - Water hygiene is concerned with the effective management and disinfection of water to prevent pathogen proliferation, especially in stored water systems.



Chlorine dioxide (ClO_2) is a strong bactericide and virucide at concentrations as low as 0.1 ppm which makes it ideal for use in a wide range of water, air and environmental hygiene applications. Chlorine dioxide has consistently been shown to be the best molecule for eradicating the causative organism of Listeriosis and Legionnaires' disease. It will also eliminate both planktonic and sessile bacteria; it disinfects surfaces; and rapidly destroy problematic biofilm. With minimal contact time, it is highly effective against many pathogenic organisms including bacterial spores, Legionella, Tuberculosis, MRSA, VRE, Listeria, Salmonella, amoebal cysts, Giardia cysts, E. coli, and Cryptosporidium. Importantly, chlorine dioxide also destroys stubborn biofilm whilst providing a lasting residual

throughout the distribution system to prevent its reformation.

Effective against many pathogenic organisms

Chlorine dioxide is highly effective when used to control:

- Bacterial spores
- Legionella (Legionnaires' disease)
- Biofilm
- Tuberculosis
- Salmonella
- Cryptosporidium
- Giardia cysts
- Coliforms
- MRSA
- VRE
- Listeria
- Shigella
- Algae
- Amoebae
- Taste and odour
- THM/HMM formation
- Planktonic and sessile organisms

In the UK, the Building Services Research and Information Association (BSRIA) has recommended chlorine dioxide as the best available technology for control of Legionella in hot and cold water systems.

Technical support and advice

Globalex works closely with a diverse range of organisations from across the water, air and environmental hygiene sectors; intelligently combining advanced treatment technologies with practical solutions to resolve complex issues. If you have a project you would like to discuss with us, or require technical support and assistance; or if you simply have a question about one of our chlorine dioxide technologies please contact one of our specialist advisors