

Spectrus* OX1225

microbiological control agent precursor

- Precursor for generation of chlorine dioxide
- Easy to feed liquid

description and use

Spectrus OX1225 is a precursor for the in situ generation of chlorine dioxide which is used to control microbial populations in open evaporative and once through cooling systems. In order to generate chlorine dioxide, Spectrus OX1225 must be reacted with 25% - 36% Hydrochloric Acid.

Control of microbial populations in cooling systems is essential in order to prevent biofouling. Biofouling in heat exchangers and cooling tower fill reduces heat transfer efficiency leading to higher energy costs. Biofouling can also damage equipment through microbiologically influenced corrosion (MIC) and force unscheduled shutdowns, or extended turnarounds, resulting in lost production.

Biofouling in cooling system can provide an ideal environment for proliferation of *Legionella* bacteria, the cause of Legionnaires disease. However, chemical treatment alone will not be effective in reducing health hazards associated with *Legionella* bacteria. System design, location, maintenance practices and awareness of personnel are essential elements of a successful risk reduction programme.

typical applications

Chlorine dioxide may be used on a continuous or intermittent basis, and may be used in a programme which includes non-oxidising biocides.

treatment and feeding requirements

Spectrus OX1225 must be reacted with 25% - 36% Hydrochloric Acid, in a chlorine dioxide generator, in

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order to generate chlorine dioxide. 1 kilogramme of Spectrus OX1225, reacted with 1 kilogramme of 25% - 36% Hydrochloric Acid, will yield 160 grams of chlorine dioxide.

Proper treatment levels of chlorine dioxide depend on many factors, such as system cleanliness, microbial species, nutrient concentration, temperature, and conditions particular to a given installation. The product should be used in accordance with control procedures that SUEZ establishes for a specific application.

Feed is controlled by a simple and accurate halogen test. Automatic control and monitoring can be achieved with an on-line monitor.

For storage and dosing equipment Spectrus OX1225 is compatible with polyethylene, polypropylene, Viton** A, Buna N**, EPR and natural rubber. It is also compatible with copper. Stainless steel 304 and 316 are acceptable. For storage and dosing equipment low carbon steel (mild steel) and aluminum are not acceptable.

general properties

Physical properties of Spectrus OX1225 are shown on the Safety Data Sheet, a copy of which is available upon request.

packaging information

Spectrus OX1225 is a liquid, available in a variety of containers and delivery methods. Contact your SUEZ representative for details.

storage

Spectrus OX1225 should be stored in a clean, well ventilated area. Protect from freezing, extreme heat

and direct sunlight. Store away from acids, reducing agents and combustible material. Keep containers closed when not in use.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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