

chlorine dioxide

SHUTTERSTOCK



An Effective Gas Sterilizer

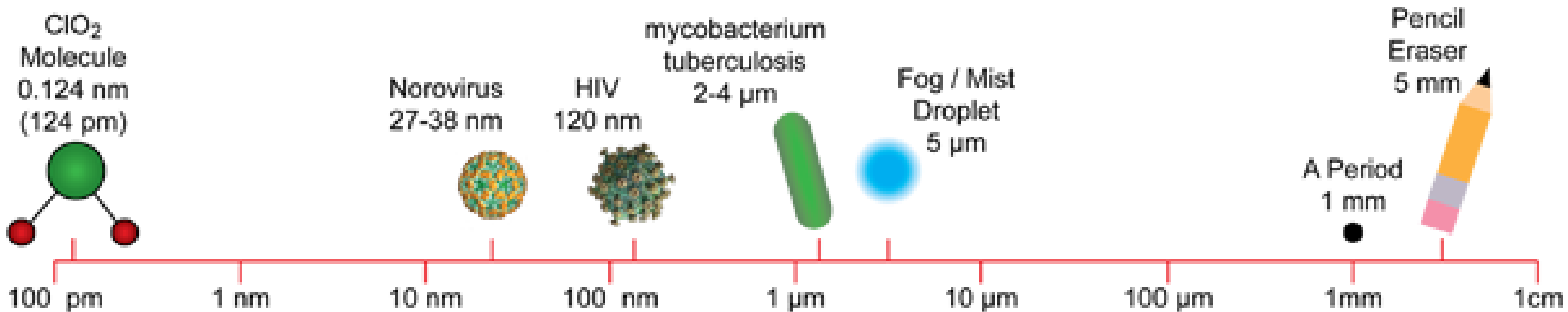
STERIFIZZ®

1. Sterifizz® is a product that releases Chlorine dioxide.
2. Chlorine dioxide kills virus, bacteria, fungi, yeast, microbial spores etc.
3. Chlorine dioxide for sterilization is approved and recognized by,
 - a. All India institute of hygiene and public health.
 - b. Indian drug research association & laboratory.
 - c. US centre for disease control & prevention agency.
 - d. US Environment protection agency.
 - e. World Health Organization.

Advantages of STERIFIZZ®

1. Simple to use.
2. No requirement of 'Fumigator'.
3. No ill effects. Very safe to use.
4. Cost-effective.
5. No residue post sterilization hence no cleaning requirement.
6. On-an-average the total time for sterilization is 90 minutes only.

STERIFIZZ® Mechanism of Action



Size of a chlorine dioxide is 0.124 nm, much smaller than smallest virus, hence allowing the gas to penetrate into any areas where microbes might be concealed.

Chlorine dioxide oxidizes (stealing electrons) cell membrane and cellular contents of microbes, causing death due to molecular bonds breakage. This oxidative attack on proteins not only kills microbes instantly but also prevents from mutating to a resistant form. This property of penetration, killing and mutation prevention is not as effective in other marketed products.

STERIFIZZ® Vs Other Fumigants – A Comparison

Formaldehyde is unacceptable for fumigation due to carcinogenic potential. In 2001, based on peer-review involving industry, academia & government, chlorine dioxide gas was identified by United States Environmental Protection Agency.

Particulars	STERIFIZZ®	FORMALDEHYDE	HYDROGEN PEROXIDE
Carcinogenic potential	Nil	Yes	Nil
Temperature & Humidity	Not a factor	Will work in 20-25°C & 60-80% RH only	Will work in 25-28°C & 90-100% RH only
Decontaminated area entry	After 1.5 hours	After 24 hours	After 6-8 hours
Odor detection possibility	Yes	Yes	No
Equipment for gas generation	Nil	Fumigator required	Fogger required
100% Kill time	Less than 30 min	10-12 hours	About 2 hours
Deactivation step	Nil	Ammonia required	Nil
Cleaning requirement	Nil	Water mopping	Nil
Skilled operator	Nil	Necessary	Necessary
Cost	Economical	Costly	Costly
Coverage of Equipment / Computer	Not required	All equipment & computers to be covered in the area	All equipment & computers to be covered in the area

Thank You