

Introduction –

Chlorine dioxide is globally approved biocide, widely used for effective, quick and broad spectrum disinfection. Since 1944, ClO₂ has been used globally for water disinfection. Its most effective and non-carcinogenic method for disinfection without formation of disinfection byproducts.

ClO₂ is an Oxidizing biocide, it deactivates micro organisms by attacking and penetrating their cell wall, disrupting the transport of nutrients across the cell wall and inhibiting protein synthesis. Since this action occurs regardless of the metabolic state of the organism, oxidizing biocides are effective against **dormant organisms and spores**.

It's a versatile molecule widely used for air and water sanitation. Conventionally the molecule is produced by acidification of sodium chlorite, and its generated at site with a shelf life of 6 hrs. Its an uncontrolled reaction where the rate of release of ClO₂ in ambient air can not be measured or adjusted, and it has pungent odor similar to that of Chlorine.

Adsorption Granules –

The proprietary formulation developed by SVS AQUA TECHNOLOGIES is able to come over limitation of conventional method of generating ClO₂. A special granular media with good molecular sieve and adsorption capacity developed is developed and ClO₂ gas is absorbed by the molecular sieve in a absorption chamber.

Post absorption – the granules are stable for a period of 12 months in unpacked condition. And they are produced in a controlled environment and also packed in a moisture free 4 layered foil packing. In presence of humidity or water the granules start releasing ClO₂ gas in the space where the pouch is kept. The released ClO₂ is effective in various areas of application. It can take care of airborne viruses also.

1. ADVANTAGE

- Long-term effect, release time 30-60 days;
- Easy use;
- No color, no odor, safe and no irritation.

2. APPLICATION

- Hang close to vent of air conditioner, to sanitize air inside the room;
- Wardrobe for removing formaldehyde odour and mould removal.
- Boxes for vegetable or fruits for preventing air contamination.
- In freezer or refrigerating cabinet, disinfecting, removing odor;
- HVAC for purifying the recirculating air

3. USAGE

Unpack the outside plastic bag, put it directly into the ducting or the confined area.

