

LATEST DISINFECTION METHOD by GASEOUS CHLORINE DIOXIDE

of air, surfaces and equipment, in enclosed spaces.

RESULT OF THE RESEARCH PROJECT: Technology for the manufacture and use of disinfection preparations based on chlorine dioxide to control outbreaks of pathogenic micro-organisms with high resistance to chemical disinfection, No POIR.01.01.01-00-1104/17-00, implemented in 2018-2023

The equipment used:

Gas GENERATOR ClO₂ type MEX-5.

Chemical preparations: ARMEX 5 pink (ClO₂), MEXACID yellow (activator).

Active substance: Chlorine dioxide (ClO₂).

Authorisation number of the biocidal product: 2437/05

Disinfection facilities:

Closed rooms, isolated from the environment.

Rooms evacuated from people, including the equipment contained (furniture, electronics, cars, other).

Cubic capacity from any small chamber up to 30 thousand m³.

Dosage:

Recommended concentration of 300 - 500 ppm ClO₂ in air.

Consumption: about 1 kg of the preparation per 100 m³.

Disinfection time 180 minutes.

Ventilation time 30 minutes.

Cost of disinfection:

GENERATOR MEX-5: 2000 PLN net (one-time).

Chemicals, about 30 PLN net per 100 m³ of room cubic capacity.

USE:

- Isolate or evacuate the building.
- Provide relative humidity >60%, or increase the concentration by 50%.
- Insert the GENERATOR MEX-5 into the room and connect to the power supply.
- Weigh and introduce the required amount of chemicals into the GENERATOR.
- Start the GENERATOR and leave the room.
- After 3 hours, turn on the outside ventilation for 30 minutes.



**MEX-5
CHLORINE DIOXIDE
GAS GENERATOR**



Available packages ARMEX 5 pink/MEXACID yellow (set):

Containers 1000 dm³, barrels 200 dm³, canisters 30, 20, 10, 5 litres, bottles 1 dm³.

Scope of application:

The approved preparation ARMEX 5, based on chlorine dioxide, is legally used for the following applications :

- A biocidal product for maintaining human hygiene, for use in private and public places (including hospitals) and in industry. For disinfection, surfaces, materials, equipment, furniture, and as an algaecidic preparation.
- for the disinfection of drinking water,
- as a biocidal product used in veterinary hygiene to maintain hygiene in places where animals are raised, housed and transported.
- for the disinfection of surfaces in contact with food and feed, for the disinfection of equipment, containers, dishes and kitchen utensils, surfaces and pipework associated with the production, transport, storage or consumption of food, feed or drink (including drinking water) for humans and animals.



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