

## TWINOXIDE DISINFECTION PROPOSITION

The suppliers of disinfection products for drinking water and process water are numerous. The majority of present suppliers deliver solutions with Chlorine Gas or Chlorine Lye. Unfortunately these products are not pH-stabile and not very health - and environmental friendly.

Chlorine Dioxide is already for a long time known as a disinfectant and due to the disadvantages of other disinfectants. The use of chlorine dioxide is increasing in the world of drinking water, breweries and sewage, as chlorine dioxide is very effective against Bacteria, Legionella and Salmonella.

When using traditional chlorine dioxide the investment in necessary expensive equipment for production is substantial, involving e.g. a fireproof building and highly educated & trained personnel. Furthermore this production installation needs certification and a license due to the explosion danger involved when producing traditional chlorine dioxide.

### - Disadvantages of traditional chlorine dioxide:

- 💧 Transport of Chlorine Dioxide is not possible;
- 💧 Before thinning the chlorine dioxide any contact with air causes an explosion;
- 💧 Chlorine Dioxide causes free chlorine, chlorite and chlorate;
- 💧 Chlorine Dioxide is highly corrosive;
- 💧 The chlorine dioxide production involves high investment cost and high cost of operation;

- 💧 The yield of a chlorine dioxide production plant is in theory ca. 80% but practically ca. 50-75%.

### WHY IS TWINOXIDE® INTERESTING TO USE INSTEAD OF OTHER DISINFECTANTS?

#### - Micro Biological Advantages:

- 💧 TwinOxide® offers strong advantages in the micro biology e.g. stronger and faster biocide function compared to Active Chlorine especially at higher pH-Values;
- 💧 Within a wide range of pH-Value (pH 4-10) independent working;
- 💧 Smell, Taste and color improvement when using TwinOxide®.

#### - Environmental Advantages:

- 💧 Less sewage load through strong decreased building of organic halogen combinations (AOX, TriHaloMethane);
- 💧 Bounded Chlorine building is strongly suppressed to a negligible amount;
- 💧 No free chlorine, chlorate, chloride or chlorite;
- 💧 No strange taste occurrences.

#### - Economical Advantages:

- 💧 Low volume and low concentration of Chlorine Dioxide;
- 💧 NO investment cost in production equipment;
- 💧 NO construction modification or certification;
- 💧 NO highly educated & trained personnel required;
- 💧 Cost of operation concerns a dosage pump with maintenance.

### - Further Advantages with TwinOxide® Chlorine Dioxide:

- 💧 30 – 60 days chemical half-time (after mixing components A & B) at 22° C in dark storage facility;
- 💧 Unmixed imperishable – we guarantee 5 years after date of production;
- 💧 NOT explosive;
- 💧 No release of free chlorine, chlorite, chloride or chlorate;
- 💧 Only light corrosive;
- 💧 A yield of nearly 100%;
- 💧 Only limited investment in a dosage installation;
- 💧 Can be used by small, medium and heavy users.

### TWINOXIDE® CHLORINE DIOXIDE

#### - Packaging Sizes

Available in 2-component powder kits delivered in certified UN Pails for 100Liter and 1000 Liter TwinOxide® 0.3%. If higher volumes are required Bulk containers can also be arranged upon request.

#### - Contact

For further information we cordially invite you to contact us:

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