



2025 Catalogue Twin Oxide





WE KNOW WHAT YOU NEED

In a rapidly changing market, there is no substitute for experience. **Aqua Solutions** can provide professional services based on our many years of experience in the water treatment industry. Learn more about our solutions and find out what fits you best!

Partnering with the best.....





TWINOXIDE

TwinOxide® is a unique, advanced delivery system of two solid components.

TwinOxide® generates a chlorine dioxide solution that is applied as a (drinking) water disinfectant. It is delivered as a powder or tablet kit of **Component A** and **Component B**. Once added to water, TwinOxide® reacts to a stable chlorine dioxide solution. The solid TwinOxide® kits are easy to store and distribute and have a shelf life of 5 years.

Superior disinfection power

There is a significant chemical difference between TwinOxide® and chlorine and chlorine-type disinfectants. Although chlorine can be found in the name, the product is not a chlorine-type disinfectant. When the TwinOxide® solution is applied, the chlorine dioxide molecule kills the full spectrum of bacteria, algae, fungi, spores, protozoan, yeast, methanogens, viruses, mold and biofilm by its great oxidising capacity. Clean water can get infected in pipelines because of biofilm. In contrast with other chlorine and chlorine-type disinfectants, TwinOxide® is the perfect solution to remove biofilm.

Very efficient dosage and water disinfection

In general, 1 litre of TwinOxide® 0.3% solution, with a dosage rate between 0.05 – 2.0 ppm will produce up to 60,000 litres of potable water. Deviations of these dosage rates are likely.



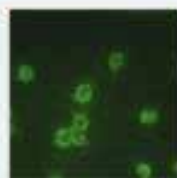
CT Values for 99% kill in 1 minute



Bacteria
ClO₂ 0.19 ppm/min



Viruses
ClO₂ 2.8 ppm/min



Cryptosporidium
ClO₂ 40 ppm/min



Giardia
ClO₂ 7.3 ppm/min

Guidelines for Drinking Water Quality WHO 2008

Environment

The **TwinOxide[®]** chlorine dioxide solution is effective against all micro-organisms. It is easy to use, simple to apply and contributes positively to human health as **TwinOxide[®]** disinfects water without producing hazardous by-products created as known from traditional disinfectants. The use of **TwinOxide[®]** does not cause a load on the environment as the rest of the products are harmless and negligible. The product is approved according to the world's most stringent national laws and regulations.

By providing a total process for water disinfection based on **TwinOxide[®]**, we decrease the usage of chlorine and other traditional water disinfectants. This contributes to a better environment and to the general welfare of consumers by providing safer and healthier drinking water.

Less chemistry is required to achieve an optimized disinfection result, when using **TwinOxide[®]** !

DISINFECTION DOESN'T NEED TO COST THE WORLD!



← APPLICATIONS

Main advantages

- ✓ Easily and safely produce and dose a stable chlorine dioxide solution without a generator.
- ✓ Eco-friendly and no production of carcinogenic or undesirable disinfection by-products.
- ✓ High disinfection efficiency.
- ✓ The solid TwinOxide products are easy, safe and cost effective to ship and store with a guaranteed shelf life of 5 years.
- ✓ No corrosion effects at use concentrations.

Features

- ✓ Selective oxidizer (does not react with e.g. ammonia).
- ✓ Effective iron and manganese removal.
- ✓ Stable chlorine dioxide solution.
- ✓ Not explosive.

Environmental Advantages

- ✓ No formation of halogens (e.g. THM, HAA, MX).
- ✓ Low residual disinfectant concentrations.
- ✓ No strange taste occurrences – improved taste and improved color of water.
- ✓ Limited sewage load.

Microbiological Advantages

- ✓ Stronger, faster and efficacious microbiological destruction within a wide range of pH-value (pH 4-10).
- ✓ Many times more oxidizing power compared to chlorine products.
- ✓ Effective removal of biofilms and no resistance building by micro-organisms.

Economical Advantages

- ✓ No investment cost in production equipment.
- ✓ No construction modifications or certifications.
- ✓ No educated & trained employees and high maintenance costs required.



Jars & Pails				
Product	Part Number		Kind of packaging / Component	Gross weight / Ctn
	A	B		
1 litre Kit	121318	121418	120 jars / ctn	3.7 kg
5 litre Kit	121312	121412	48 UN jars / ctn	6.1 kg
10 litre Kit	121313	121413	18 UN jars / ctn	4.6 kg
25 litre Kit	121314	121414	12 UN jars / ctn	7.0 kg
50 litre Kit	121315	121415	6 UN jars / ctn	6.8 kg
100 litre Kit	121316	121416	4 UN jars / ctn	9.3 kg
200 litre Kit	121513	121613	1 UN pail	4.4 kg
500 litre Kit	121511	121611	1 UN pail	10.8 kg
1000 litre Kit	121512	121612	1 UN pail	21 kg

Display Carton			
<u>Product</u>	<u>Part Number</u>	<u>Kind of packaging / Component</u>	<u>Gross weight / Ctn</u>
Display Carton	127101	2 x 1 litre funnel, pipette and bottle	0.5 kg



Tablet Strips				
Product	Part Number		Kind of packaging / Component	Gross weight / Ctn
	A	B		
Tablet Strip	121810	121811	6 tablets of 1 gram / strip (350 strips / ctn)	5.7 kg



Tablet Box

<u>Product</u>	<u>Part Number</u>	<u>Kind of packaging / Component</u>	<u>Gross weight / Ctn</u>
Tablet Box	121910	1 Strip Component A + 1 stripComponent B (each 6 tablets of 1 gram) in full colour box with 100ml dropper bottle (12 boxes/ctn)	2 kg



Test Kit

<u>Product</u>	<u>Part Number</u>	<u>Kind of packaging / Component</u>
Quick Residual Test Kit		1 bottle with reagent A, 1 bottle with reagent B, 1 test measuring bottle, colour test sheet, instructions





Contact Details
San Croy Office Park
12 Botany Place, 28 Die Agora Road,
Croydon, Kempton Park,
Gauteng, South Africa
E-Mail: admin@aqua-solutions.co.za
Tel No: +27 11 392 5363
www.aqua-solutions.co.za

