



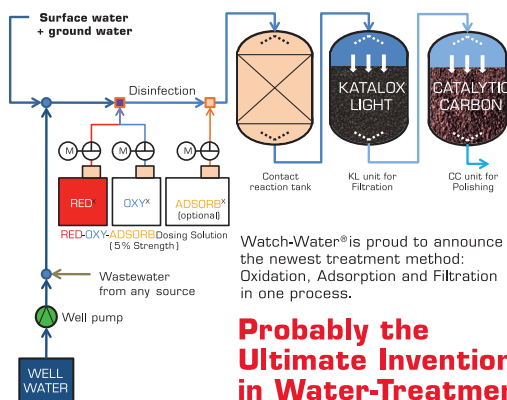
**AQUAMETRICS
ENVIRONMENTAL**

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RED-OXY[®] TREATMENT

Oxidation – Adsorption – Filtration

A revolution for all water treatment, including wastewater. The treatment of water of any kind with RED-OXY[®] has shown the best results for the removal of turbidity, color, odor, BOD, COD, and inactivation of bacteria. In all waters, RED-OXY[®] produced the highest quality of final water, predominantly due to its simultaneous action as an adsorbent, oxidant, and disinfectant. Working as an adsorbent, RED-OXY[®] produces the best quality of final water compared to all other adsorbents, based on iron or aluminum. The advantage of using RED-OXY[®] is never having to change the adsorbent, thus producing minimal waste and making RED-OXY[®] a promising adsorbent solution for all waters, including wastewater.



Watch-Water[®] is proud to announce the newest treatment method: Oxidation, Adsorption and Filtration in one process.

Probably the Ultimate Invention in Water-Treatment!

Advantages

- No Chlorine
- No Flocculent/alum
- No Acids
- No DBPs
- No Ozone

Applications

- Drinking water
- Process water Re-use
- Irrigation
- Mining
- Wastewater treatment
- Oil & Gas industries
- Fracking
- Soil Treatment
- Paper and pulp industries

RED-OXY[®] has proven to remove toxic organic molecules, such as nitrosamine, organic sulfur compounds, including sulfates and phenol, as well as inorganic ions such as arsenic, copper, chromium, cadmium, cyanides, fluorides, destroying all viruses and bacteria.

RED-OXY[®] is best suited for residential, commercial, industrial, municipal, including fracking, applications, making RED-OXY[®] the ultimate water solution.

Fast. Safe. Cost-Effective.

Our manufacturer, **Watch Water[®]**, has a goal to develop new technologies for the filtration, adsorption and disinfection, including the removal of organic materials from potable water supplies, and also removal of organics from aqueous process streams prior to recycle (water reuse) or discharge into deep wells or natural surface waters.

Most of the research in Watch-Water[®] is dedicated to discontinuing the use of:

- Chlorine
- Chlorine Dioxide
- Ozone

RED-OXY[®] has shown great results as multi-functional water and waste water treatment product for:

- Adsorption
- Oxidation
- Disinfection

RED^x + OXY^x and KATALOXLIGHT[®], both with Formula $FeO_4^{-2} + MnO_4^{-2}$, are considered to have the same formula named tetrahedral structured ions. Tetrahedral FeO_4^{-2} produced with the system RED^x having the highest oxidation and reduction potential in acidic solution, with its ferrate ions, is the strongest oxidant and capable of removing inorganic and organic impurities within a few seconds of reaction. The ferrate will generate iron ions and oxygen molecules.

The oxidation-reduction reaction is the strongest reaction, with a particular significance in the entire water treatment industry, due to the lack of by-products.

After the oxidation of all organics including inorganics, the final left over is the ferric ion. To maximize the valuable ferric iron, the solution of ADSORB^x is dosed to create the floc and catch the inorganic precipitates of cations and adsorb anions, and all suspended particles, including colloids.

RED^x, OXY^x and ADSORB^x is unlike any other solution due to the level of safety, convenience, versatility, cost saving, and environmentally-conscious capabilities.



Master Distributor of Watch Water[®] products in the U.S. and Canada.

360.703.0195

WHAT IS RED-OXY®?

With the Watch Water® process, RED-OXY® generated Ferrate is the most stable form of Ferrate (VI) due to it being generated with Ferric Hexahydrate granules. The oxidant used in this process is a strong acid halogen, which generates a high voltage of oxidant without any DBPs. The REDOX potential of the oxidant is as high as Hydroxyl Radicals.

Watch Water® understands chemistry. With our proprietary process, generated Ferrate, of ONLY TWO COMPONENTS uses:



In any kind of water, in the presence of contaminants, RED-OXY® spontaneously decomposes into strong oxygen and the most powerful adsorbent based on ferric hydroxide, with a surface area of 3500 m²/gram.

The chemical formation reaction is
 $\text{Fe(OH)}_3 + \frac{3}{4} \text{O}_2 + 2\text{OH}^-$

This reaction is the strongest for the Oxidation-Adsorption of metals, non-metals, and organic contaminants in water and wastewater treatment. These contaminants include ammonia, cyanide, thiocyanate, and a very high concentration of hydrogen sulfide.

As many of the reactions are pH-based, it can be controlled in the process with OXY^x, the most powerful oxidant and disinfectant against viruses and Coli-form bacteria. Inactivation of viruses and all kind of bacteria occur faster as the pH drops, a phenomenon that has been attributed to mono-protonated form of HFeO₄⁻.

RED-OXY® treatment can be done without investing in specialized dosing equipment. Most of the systems world-wide can use the existing feed pumps, bringing substantial improvements in finished water quality, especially in regard to trace organic contaminants and DBPs. Most water treatment systems, regardless of their size, use a coagulant (replaced by RED^x) and a chemical disinfectant (replaced by OXY^x) and the sand filter (replaced by KATALOX-LIGHT®). However, adding I-SOFT Corrosion Control chemicals may be necessary if after treatment corrosion-control is needed. Watch Water® has developed this technology in the INSTANT form of RED^x and OXY^x to save on the transportation cost of chemicals.

Solutions for all contaminants problems just got easier. RED-OXY® is an innovative treatment for communities and municipalities with multiple applications.



THE RED^x ADVANTAGES

Watch Water® Germany has designed the RED^x system to generate Ferrate for a very reasonable cost. In addition to low costs, RED^x is the only system for treating drinking water, agricultural irrigation, industrial applications, municipal water treatment, including disinfection and filtration.

Watch Water® Germany is the only innovator to introduce the first on-site RED^x generator and the Strongest Oxidant Solution [SOS] generator for disinfection and adsorption of almost every contaminant in water. RED^x technology combines RED^x, OXY^x and ADSORB^x to generate the most cost-effective, high-capacity Oxidant, Disinfectant and Adsorbent with real chemistry. Our intelligent and expertly designed RED^x generators give all our customers the freedom to produce oxidants, disinfectants, and adsorbents in the amount they need and when they need it.

RED^x generators are available in different sizes to fit every application and to produce superior results compared to any other oxidants and disinfectants, including adsorbents, available in the water treatment market. RED^x chemistry will clean over 7000 billion gallons of water every day. Safer, more economical, and effective, RED^x is a new revolution in the process of making water clean and safe and without any hazardous byproducts.