



ORGANIC SUSTAINABLE SOLUTIONS THROUGH GREEN CHEMISTRY



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PureOXY Technology

- Stabilized, hydrogen peroxide and glycolic acid solution that delivers a potent redox reaction. High millivolt charges of 700mV to 850mV are non-fuming, and non-toxic to inhale.
- Provides consistent, stable, on-demand, releases of oxygen rather than the unstable, uncontrollable, spontaneous releases common in other oxidizers, such as hydrogen peroxide.
- Extremely clean organic formulations comprised of carbon, and hydrogen that release oxygen radicals. PureOXY will also releases alpha and beta hydroxyl radicals, without electricity or UV, using safe, stable chemical reactions that promote environmental wellness

“Stable Reaction” vs. “Stability of Product” is the difference between other oxidizers and PureOXY. When hydrogen peroxide manufacturers speak about stability and promote a 97-99% stable product, they are referencing the shelf-life. Specifically, “Stability of Product” is a measure of how much the product on-the-shelf will be like the originally manufactured product, after sitting for a period of time. For example, stability as reported by H₂O₂ manufacturers, is how much the product loses or retains of its original active ingredients under various test scenarios, such as a 3-hour test time or over a one year time frame. Examples of “Stability” ratings for H₂O₂ from various manufacturers are “99.9% Stable in a 3-Hour Test” or “0.1% Loss per Year”. However, regardless of how stable hydrogen peroxide is, once a reaction with hydrogen peroxide is triggered, that reaction is totally uncontrollable and spontaneous, with the majority of its oxidative benefits being lost (gassed off) into the atmosphere practically instantaneously.

PureOXY holds its oxygen molecules, waiting for them to react against a constituent, and provides a controlled, stable release of oxygen that is on-demand. While PureOXY also has excellent “Stability of Product” while on-the-shelf, the unmatched, significant benefit is its “Stable Reaction” that comes from oxygen being released only as needed or is demanded, and stores and holds the remaining oxidative capacity until the next constituent reacts with it. PureOXY provides constant, stable, controlled reactions that result in more oxygen being delivered where it is needed at a fraction of the cost of any other method available.

ACTIVE OXYGEN VS. DELIVERED OXYGEN

On a strictly mole-to-mole basis, it is a basic fact of chemistry that 50% H₂O₂ has a bigger bank of “Active Oxygen”; however, “Delivered Oxygen” is the clear separator between PureOXY and other oxidizers, including hydrogen peroxide. To illustrate this point, a standard titration analysis reveals that a 99.9% stable hydrogen peroxide solution at 50% concentration, with an Active Oxygen of 23.5%, has an oxidative capacity of 0.2 ml per 2 ml of H₂O₂. By comparison, the same 2 ml quantity of PureOXY produces an oxidative capacity of 168 ml, which is a remarkable 840 times the “Delivered Oxygen” of H₂O₂. Because hydrogen peroxide’s uncontrollable, spontaneous reaction can’t be stopped once it begins, and it burns its entire oxidation capacity in a matter of seconds. The “Delivered Oxygen” from PureOXY is far superior to hydrogen peroxide and other oxidizers in virtually every application.

SPECIFICATIONS

- Clean Technology: Uses only Carbon, Hydrogen, Oxygen
- End By-Products: Oxygen, Carbon Dioxide and Water
- Non-fuming, non-toxic to Inhale, not a skin irritant
- Proprietary Hydrogen Peroxide / Glycolic Acid formulation & process allows for complete, efficient chemical oxidation
- Strong Carboxylic Acid with Organic Acid pH similar to lemon juice
- Equilibrium Process creates complex molecules that wait to react, holding energy

SELECT INDUSTRIAL APPLICATIONS

- Biosolids Conversion to Class A's
- Biocide for Oil Well Process Water & Hydraulic Fracturing (Frack) Water
- Sour Water Abatement in Oil Refineries
- H₂S Bacterial Abatement & Aerobic Treatment in Wastewater Systems
- Septic Tank Treatments
- Hydrocarbon Reduction
- Sulfur Dioxide Reduction & Oxidation
- Lagoons, Excessive Nutrients/Eutrophication Offset, Dead Water Hypoxia & Harmful Algal Bloom
- Mineral, Scale, FOG, Grease Residue Removal for All Applications

SELECT ANTIMICROBIAL APPLICATIONS

- Hard Surface Cold Sterilant, Disinfectant & Sanitizer

SELECT APPLICATIONS

- Fungicide and Biocide
- Air Emissions Treatment
- Water Treatment, Wastewater & Cooling Towers
- Aeration (soil and water)
- Improving Dissolved Oxygen Potential



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