

# Aquapure™ OE

Aquapure OE is a highly effective catalyst that creates powerful “hydroxyl radicals” when used in conjunction with hydrogen peroxide. The process has been shown to be extremely effective for quickly oxidizing molecules that are very difficult to oxidize such as benzene, phenols, cyanide, MT BE, hydrogen sulfide (H<sub>2</sub>S), toluene, and virtually all chlorinated hydrocarbons including TCE, PCE and vinyl chloride (see table below). It is the most effective method to treat for odor and corrosion that results from sulfide contamination. This product is VTX based and can be metered in alongside peroxide for easy applications.

The treatment requires no acidification step, creates no sludge under most treatment conditions avoids costly material of special construction, is easily adapted to existing treatment units and most importantly, is typically the least costly option for treatment or removal of recalcitrant organic compounds.

## Features & Benefits

|                                      |   |
|--------------------------------------|---|
| Easy to use liquid                   | Can be metered next to hydrogen peroxide    |
| Works with oxidizer                  | Creates volumes of hydroxyl radicals        |
| Reaction takes place at 6.5 – 7.5 pH | Breaks organic bonds of organics for better |

## Physical Data

|                  |                   |
|------------------|-------------------|
| Appearance       | Dark brown liquid |
| Odor             | Slightly acrid    |
| pH               | 6.8 – 7.2         |
| Specific gravity | 1.07              |
| Boiling point    | 106°C (223°F)     |
| Vapor pressure   | 40 mmHg @ 35°C    |

## Operating Conditions

Aquapure OE is effective within a pH range of 3.5 to 8.5, although it is most typically used in a range of pH from 6.0 to 8.0. Typically, the amount of peroxide necessary for complete oxidation of target contaminants ranges from 1.0 to 5.0 times the contaminant mass as



**Cleaning**  
the Hard to Clean



**Finishing**  
the Hard to Finish



**Treating**  
the Hard to Treat

measured by the Chemical Oxygen Demand (COD) test with 3 to 1 time being the most typical ratio. Aquapure OE is formulated to be added at a volume to volume ratio of 1-part Aquapure OE to 1 part of the calculated hydrogen peroxide (35%) dosage. Treatability studies can quickly determine the most efficient dosage rates.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

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## Our people. Your problem solvers.

For more information on this process please call us at  
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