

Hydrogen Peroxide (50%) Chemical Oxidizer for Odor Control

Hydrogen Peroxide 50% is a strong oxidizer effective at controlling odor-causing sulfides and related oxidizable compounds in municipal and industrial wastewater systems.

During treatment, it decomposes to oxygen and water, thereby adding dissolved oxygen to the system which reduces Biological Oxygen Demand (BOD).

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.

Typical Application

- Gravity mains < 2hrs Retention time (Rt.)
- Force mains < 2hr Rt.
- Lift station wetwells
- Solids processing
- Septage and leachate
- Ponds and lagoons

50% Hydrogen Peroxide is a strong oxidizer effective in controlling sulfide and organic related odors in wastewater collection and treatment systems. It is typically applied to a wastewater system where there is a retention time of less than two hours and at least 30 minutes prior to the point where the hydrogen sulfide is released.

Typical Feed Requirements

50% Hydrogen Peroxide can be added directly to the system creating the odors and is generally applied using custom designed feed systems. Dose rates will vary with the application.

Typically, a minimum of 1–3 mg/L of 50% Hydrogen Peroxide is required to effectively remove 1 mg of sulfide.

For additional treatment information, including dosage specific to your application, please contact your Siemens representative.

Typical Physical Properties	
Appearance	Clear, colorless liquid
Odor	Odorless
Boiling Point	114°C (237°F)
Solubility in Water	Complete
Specific Gravity	1.20 @ 20°C/4°C
Density	9.96 lbs./gal @ 20°C
Vapor Pressure	9 mm Hg @ 20°C (68°F)
Freezing Point	-52°C (-62°F)
pH (as is)	< 3.0
Active Oxygen Content	23.5%

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Siemens Water Technologies North America Service Network

Storage and Handling

Store in a cool, dry, well-ventilated place away from heat, cold, sources of ignition, oxidizable materials, strong alkalis, organic materials, and acids. Protect from freezing. Storage containers for Hydrogen Peroxide 50% must be vented and made of compatible plastics, 304 or 316 stainless steel, or high purity aluminum. Avoid storage on wood floors or pallets.

Hydrogen Peroxide 50% is an oxidizer and a corrosive. Wear appropriate protective clothing. Avoid prolonged contact with skin and clothing. Avoid breathing vapors. After handling, always wash hands and clothing thoroughly with soap and water. Do not allow spills to dry, wash with large quantities of water. Drying on clothing or other combustible materials may cause fire.

Read Material Safety Data Sheet before using, handling or storing this product.

Packaging

Hydrogen Peroxide 50% is available in totes and in bulk quantities. For further information, please contact your Siemens Water Technologies representative. For reorders and customer service, call (800) 345-3982.

Siemens
Water Technologies
2650 Tallevast Road
Sarasota, FL 34243
Toll-free: 800.345.3982
Fax: 941.351.4756
municipalservices.water@siemens.com

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