

Alkagen® X Solution

Cost-effective odor and corrosion control

Alkagen® X solution is a unique, proven product that uses alkaline technology to cost-effectively control pH and reduce the release of odor-causing hydrogen sulfide in wastewater collection systems or treatment facilities.

This solution provides significant operational and cost advantages over other alkaline enhancement products. It provides necessary alkalinity for plant processes and produces denser, lower sludge volumes. Alkagen X has unique buffering capabilities that allow for longer-lasting pH control with residual effects seen further downstream.

System design

The storage and distribution system for Alkagen X solution is engineered for optimal performance with a robust mixer that generates maximum agitation with minimal energy use. Agitation provided by the mixer maintains the suspension of slurry solids throughout the entire volume of chemical. Enhanced dosing software includes a sophisticated flush mechanism that provides remote maintenance of the system, keeping the system online and increasing uptime. Additionally, a pressure relief valve reduces pressure buildup in the system, improving safety when performing maintenance and reducing the risk of system leaks or spills.

Typical feed requirements

Alkagen X is applied at strategically selected point(s), typically upstream of the odorous control point in a collection system or wastewater treatment facility. The benefits of Alkagen X can be seen throughout the system. The application has been proven to reduce atmospheric hydrogen sulfide, decrease fats, oils, and greases (FOG) in the collection system, and provide a beneficial alkalinity supplement for the biological treatment process within the wastewater treatment plant. For additional treatment information, including dosage specific to your application, please contact your Xylem representative.

Features and benefits

- Controls atmospheric sulfide to reduce odors and corrosion
- Long lasting pH control without sudden dips or spikes in pH
- Reduces scaling
- Minimizes the accumulation of fats, oils and grease in collection and treatment systems
- Reduces sludge disposal costs
- Provides beneficial alkalinity supplement for key treatment processes
- Available as a full-service offering

Applications

- Force mains/pressure mains
- Gravity interceptors
- Lift station wet wells
- Wastewater treatment plant headworks
- Wastewater treatment plant basins

Storage and handling

Alkagen X solution contains no hazardous substances as defined by GHS or the CERCLA list of reportable quantities. This solution can be stored outdoors in ambient conditions. Follow all local, state, and federal regulations for storage. Do not dump on the ground or release into any body of water. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws, and regulations, which may vary in different locations. See Safety Data Sheet for additional safety and handling information before storing or handling Alkagen X solution.

Packaging

Alkagen X solution is normally shipped in 4,000-gallon bulk tanker loads. For further information, please contact your Xylem representative. For reorders and customer service, call +1 (800) 345-3982.

Typical physical properties

Specifications

Description	Aqueous suspension of magnesium hydroxide
Appearance	White to off-white free flowing liquid
Solids concentration	50-60%
Available $Mg(OH)_2$	94 – 98%
Density	12.0 – 13.0 pounds per gallon @ 25°C
Specific gravity	1.4 – 1.6 @ 25°C
Viscosity	< 400 cps
Freezing/crystallization point	0°C (32°F)
% particles passing 325 wet sieve	89 – 92%

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