

A large industrial facility with a high ceiling and steel beams. Several large, dark, cylindrical storage tanks are visible. One tank in the foreground has the number "1500" written on it. A worker in a light blue shirt and dark pants is walking in the center of the facility. The lighting is industrial, with overhead lights illuminating the space.

CHEMICAL STORAGE RECOMMENDATIONS
FROM ASSMANN CORPORATION OF AMERICA

PERACETIC ACID STORAGE

Peracetic acid (also known as peroxyacetic acid, or PAA), is an organic compound with the formula $\text{CH}_3\text{CO}_3\text{H}$. This organic peroxide is a colorless liquid with an acetic odor. It is highly corrosive and a strong oxidizer. Peracetic Acid is used in numerous applications, including chemical disinfectant in healthcare, sanitizer in the food industry, and disinfectant during water treatment. It has been used as a preventive additive to control bacteria in cooling towers and even

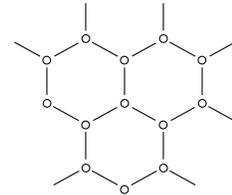
used for bleaching in the pulp and paper industry. Users know peracetic acid to be versatile and effective, and professionals with environmental responsibilities consider it to be environmentally friendly due to its decomposition products, which include acetic acid, oxygen, and water. Peracetic acid is corrosive/irritating to the eyes, mucous membranes of the respiratory tract, and skin. It causes extreme discomfort and irritation to the upper respiratory tract in humans after exposure.

ASSMANN POLYETHYLENE TANKS ARE NSF CERTIFIED

Assmann Corporation is the only manufacturer that has NSF certification for our Crosslink polyethylene in chemical storage applications. Other storage tank manufacturers do not carry the NSF certification on Crosslink polyethylene without the use of expensive liners, or they simply have potable water certification and do not have chemical certification. While selecting your storage tank, consider if NSF certification is required.



Certified to
NSF/ANSI 61



Assmann recommends that tanks be constructed of Crosslink Polyethylene.

All connections below liquid level must prevent chemical from contacting tank wall cross section. All tanks sidewall connections must use Stainless Steel construction. (Flange style fittings are not permitted). Sidewall connections should be installed a minimum of 7" above the tank floor. Stainless Steel Internal siphon drains can be used if required. Sidewall connections should be kept to a minimum amount and should be placed no closer than 22 degrees apart. Whenever possible, sidewall connections should not be greater than 3". All dome fittings must also be of Stainless Steel construction. Passivation is recommended.

Assmann's Crosslink polyethylene has a much higher softening point than conventional linear polyethylene. Crosslink also has a much higher impact resistance.

PARACETIC ACID

Resin	Specific Gravity	Fitting Material	Gasket Material	Hardware
XLPE	1.9	316 Stainless Steel	Teflon material preferred. Viton acceptable for top connections.	316 Stainless Steel



Tank must maintain atmospheric pressure. Vents must be sized for a minimum of two times the largest inlet or outlet port for both pneumatically and pump filled tanks. Tanks vented through a scrubber system, the vent size cannot be reduced passing through the scrubber. If a dispersion pipe is used in the scrubbing system, the pipe should not be submersed in more than 6" of liquid. A perforated dispersion pipe must allow for the same cross-sectional area of the pipe to prevent vent restriction. **Under no circumstances should tank be placed under pressure or vacuum conditions.**

Special Considerations:

- PVC may be used for vents & anti-foam elbows.
- Keep Chemical below a temperature of 90°F.
- Sealed Manways are recommended (Bolted and gasketed).
- Protect storage tank from direct sunlight, by shelter or use of foam insulation.

SECONDARY CONTAINMENT

End user should check local regulations to meet secondary containment requirements. Containment must be adequate in capacity and suitable for Peracetic Acid. By accepting the delivery of the tank, the customer accepts full responsibility for providing appropriate and adequate containment for the stored material. Assmann Corporation offers a variety of secondary containment basins.





Flexible hoses or Expansion Joints must be used on all lower ½ sidewall connections. A lightweight isolation valve is permitted prior to the flexible joint. All piping must be supported independent of tank. Pipe supports must be installed after the flexible joint, to allow the tank to expand and contract under normal service conditions. Polyethylene tanks expand and contract both laterally and vertically; expansion hose or joint must accommodate for this expansion.



Assmann recommends the following fitting materials of construction; Materials should be 316 Stainless Steel or PVC for nozzles. Gaskets should be Teflon material. Metallic fittings and hardware should be 316 Stainless Steel. All connections below liquid level must prevent chemical from contacting the tank wall cross section. Bulkhead-style connections can be used on tanks 2,000 gallons and below. The sidewall connections of tanks above 2,000 gallons should be 316 Stainless Steel construction. (Flange style fittings are not recommended). There are no restrictions on dome fittings. Special attention needs to be paid to vents and manway openings.



Certificate Number:
DAS 90024930/39/Q Rev: 001

Quality: First and Forever

Assmann polyethylene bulk storage tanks are built the right way – even if that's not the easiest or fastest way. We're the only manufacturer who uses non-shielded molds with low temperature heat and gradual air cooling. The result is truly uniform wall thickness, unparalleled certified quality, and reliability that proves itself every time and across decades.

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