



Position Statement Sodium Hypochlorite (NaOCl) <16.5% Storage Tanks

Tank:

HDLPE, 1.9 SpGr rating (ASTM D-1998 - 600 psi hoop stress design)

- Indoors – Natural color
- Outdoors – Opaque White Resin #880059 or Natural color with insulation with mastic coating.
** Opaque White Resin #880059 available on tanks up to 12,500 gallons*

Full Drain Option:

SUMO™ (Snyder Unitized Molded Outlet):

- Available on single wall vertical tanks 2000 to 12,500 gallons.
- Encapsulated titanium threaded ring with PVC adapter.

Double Wall Tanks:

Mini-Captor™ and CAPTOR™ Containment Systems (CCS) – 35 to 10,000 gallons

- Primary Tank
 - Indoors – HDLPE, 1.9 SpGr, Natural color, (ASTM D-1998 - 600 psi hoop stress design)
 - Outdoors – HDLPE, 1.9 SpGr, Opaque White Resin #880059
- Secondary Containment Tank
 - HDLPE, 1.5 SpGr, Natural color

Fittings:

Material of Construction:

- Fitting: PVC or CPVC (schedule 80)
- Gasket: Viton®
- Bolt: Titanium

Plumbing to the tank:

Required use of **flexible connections** with fittings

- Allows for 4% lateral and vertical expansion and contraction of the tank
- Reduces pump and piping vibration stress on the tank, fittings, and gaskets
- Flexible connections, piping, and valves must have structural support independent of tank sidewall and dome

Venting:

Tanks are designed for use at atmospheric pressure. Pressure or vacuum situation can cause excessive deformation or damage to the tanks and void warranty. Venting equipment should be sized to limit pressure or vacuum in the tank to a maximum of ½" water column (0.018 PSI). If the tank will be pneumatically filled (through tanker discharge) additional pressure relief may be required.

Foundation and Restraints:

Tanks should be positioned on a smooth concrete or asphalt pad providing adequate support. The pad should be clean, smooth and level so it fully supports the entire tank bottom with no deflection. If a seismic restraint system is used the pad must be adequate in size for anchor plate attachments per the seismic code.

Temperature:

Product should not exceed 100 degrees F at delivery or during storage to reduce decomposition of the sodium Hypochlorite

CAUTION!

The life of a tank is affected by the quality of the sodium hypochlorite stored. Tank owners are cautioned to **use high quality sodium hypochlorite** with low iron, nickel, and copper content. These metals contribute to the decomposition of the sodium hypochlorite and accelerate the oxidation and degradation of the tank.