



Den Hartog

INDUSTRIES, INC.

Chemical Compatibility for Chlorine

Following are our recommendations based on current information:

Chemical	Concentration, %	Temperature of use, °C	Comments
Sodium hypochlorite	Less than 12%	23 (73° F)	Suitable under normal use conditions.
	Less than 12%	40 (104° F)	Some attack. Have seen 2 mil of surface erosion over reportedly 2-year period, which has weakened the tank. Would give it only a 5 out of 10 rating where 10 is best and 0 is the worst.
	12-16.5%	23 (73° F)	Suitable under normal use conditions.
	12-16.5%	40 (104° F)	Unsuitable
	Above 16.5%	23 (73° F) and 40 (104° F)	Unsuitable.
Sodium hydroxide (caustic soda)	35% or less	23 (73° F) and 40 (104° F)	Suitable under normal use conditions.
	50% or above	23 (73° F)	Not without testing
	50% or above	37 (99° F)	Unsuitable
Sodium chlorite	30%	23 (73° F) and 40 (104° F)	Suitable assuming normal use conditions.
	50%	23 (73° F)	Suitable. Rating of 8.
	50%	40 (104° F)	Not without testing.

Additional recommendations:

- Room temperature is assumed at 23° C (73° F)
- Non-controlled temperature is assumed at 40° C (104° F).
- PVC or CPVC (schedule 80) fittings with viton gaskets are required.
- Use of flexible connectors with fittings is also required.
- Secondary containment according to local regulations is recommended.
- We recommend opaque white or light color tanks.
- Use a 1.9 specific gravity rating on tanks larger than 1,000 gallons.
- An 18 month limited warranty applies to tanks storing Chlorine when in compliance with the above restrictions.

Ace Roto-Mold • Injection Molding • Blow Molding • Sowjoy

4010 Hospers Drive South
P.O. Box 425
Hospers, IA 51238-0425
712-752-8432 • 800-342-3408
fax 712-752-8222
www.denhartogindustries.com