

No-Chlor™ DeChlorination Grade **Calcium Thiosulfate Solution**

INSTRUCTIONS

NO-CHLOR™ DECHLORINATION GRADE CALCIUM THIOSULFATE SOLUTION (CTS) is a premixed solution used for the neutralizing of chlorine in water discharges to the environment. By using the **H₂O Neutralizer®** with its patented lateral by-pass venturi, insures that you will achieved dechlorination of your discharge before you lose control of the water. CTS, has NSF 60 approval, which is maintain by the manufacturer of the solution. CTS does not harm the environment; independent testing shows that aquatic life is not harmed by the solution, it is pH neutral and it has no effect on dissolved oxygen in the water.

CTS can be used straight from the container and what is not used can be stored in the container for up to one year, the cap needs to be tight and stored inside out of the sunlight.

DECHLORINATION PROCEDURES

1. Determine the location of your discharge and make sure that you have proper drainage. If needed insert a smaller orifice ring to insure that you will not flood the discharge area. Install device, twenty foot discharge hose and diffuser.
2. Determine your chlorine residual level of the water being discharged into the environment. For each pound of chlorine to be neutralized, 4/10 of a gallon (51.2 oz. / 1.51 ltr.) of CTS will be required. It is wise to have 10% –15% more chemical on hand then what is calculated.
3. Position CTS container(s) within a few feet of the device and insert suction tube into the container. You may have to attach the tube to long wood stick so that the tube will reach the bottom of the container.
4. Open **Feed Solution Control Valve** in the full open position.
5. Open discharge valve to the full open position, **DO NOT THROTTLE FLOW BY THE DISCHARGE VALVE** control discharge flow rate by inserting a smaller orifice ring into the device.
6. Test discharge water for chlorine, if you still have chlorine shut down the discharge and install a smaller orifice ring to slow the discharge rate to match the strength of the calcium thiosulfate solution to the chlorine residual level (CRL).
7. If you have **NO** chlorine in your discharge, turn down the feed solution control valve and check the discharge. Continual to turn down the feed control valve until you get a CRL reading, then open back up the valve until you have **no** chlorine in your discharge. What you have done is balance the CRL to the calcium thiosulfate solution. This way you will only use what solution is needed to neutralize your chlorine.
8. If you only need a small amount of solution to neutralize your discharge you can dilute the calcium thiosulfate solution with water, you can use the super chlorinated water for this. By diluting the solution you will be able to adjust your feed solution easier when you are working in the mid range of your control valve.
9. When neutralizing super chlorinated water, you need to monitor your CRL of your discharge and incoming water to the device. The reason is that as you discharge the super chlorinated water, the incoming fresh water will lower the CRL, thus allowing you to adjust the feed solution control so you do not waste the dechlorination chemical. When your incoming water to the device is at the same CRL that the source water is, you have finished your discharge.