

## 20,000 TPY SODIUM CHLORATE PLANT FOR SALE

Capacity: 20,000 TPY

Year Built: 1991

Shut Down: 2008

Raw Material: Sodium chloride

Product Quality:

- > 99% NaClO<sub>3</sub>
- 0.03% NaCl
- 4 ppm Sodium Dichromate as Chromium
- 0.05% water
- Balance NaSO<sub>4</sub>

Technology: Chemetics electrolysis

Major Equipment:

- Electrolyzers
- Coated titanium anodes, and STAHRMET steel cathodes
- Reactors
- Chlorate Crystallizer
- Crystal Centrifuge
- Chlorate Dryer
- Hydrogen Scrubber
- Sulfate Removal System



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### BRIEF PLANT DESCRIPTION

The electrolytic system consists of electrolyzers, a reactor, a cooler and the inter-connecting piping. When direct current is applied, the hydrogen gas produced displaces liquor and reduces the specific gravity of the electrolyzer and outlet piping contents. The resultant specific gravity differential between the liquor in the electrolyzer and that in the reactor creates a high rate of circulation without the use of a large alloy pump. The sodium chlorate production rate is controlled by varying the direct current to the electrolyzers and the desired chlorate/chloride concentration in the product is achieved by adjusting the brine feed to the system and by regulating the quantity of water evaporated from the process by the chlorate crystallizer.

**CONTACT US FOR MORE DETAILS**