Aqua Tri-Treat

Heavy Metal Removal Water Treatment Process

Aqua Tri-Treat is a superior "three in one" metal removal program replacement for traditional hydroxide precipitation. Aqua Tri-Treat reduces costs, improves compliance, and increases capacity since it is three processes in one to remove heavy metals without the traditional hydroxide precipitation. Aqua Tri-Treat coagulates, flocculates, and ion exchanges to remove metals from wastewater. Aqua Tri-Treat has the ability to remove heavy metals at levels far below the traditional hydroxide precipitation.

Features/Benefits

- Removes heavy metals at levels far below traditional hydroxide methods.
- Generates less sludge, settles faster, reacts quicker and is less pH dependent.
- Increases settling rates resulting in increased system throughput.
- Less equipment scaling from deposits
- Lower dosage required than hydroxide techniques.
- Simplification of operation provides more economical treatment.
- Sludge usually passes TCLP/STLC testing so it can be reclassified as nonhazardous but regulated.
- Reclassification as nonhazardous due to nonleaching reduces the long term environmental risk for landfill leachate cleanup.

Operating Conditions

Effective pH range	7 – 11
Temperature	Ambient
Treatment time	2 – 4 hours

Aqua Tri-Treat is a bentonite-based metal removal process that is effective in decreasing levels of molybdenum, cadmium, chrome, zinc and other heavy metals in industrial wastewater below accepted regulatory thresholds. The product is supplied in a dry mixture form and is added to the contaminated water inside a treatment tank. The water in the tank is slowly agitated to allow recirculation and even spread of the treatment mixture. The treatment is continued for 2 to 4 hours,

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after which the flocculated sludge is allowed to settle and is removed by filtration. If needed, the process may be repeated to achieve additional removal effect.

Specific dosage of Aqua Tri-Treat mixture per given volume of water and number of potential repeat treatments depend on such factors as type of contaminant metal or their combination as well as initial and target concentrations. In most cases, the sample of wastewater is required to be provided for analysis and subsequent determination of the recommended process details.

The data and statements contained in this bulletin are based on testing information and are believed to be accurate and reliable. This bulletin is not a Guarantee or Warranty, express or implied regarding the products use. The product is sold on the condition that the purchaser will do their own tests to determine the suitability of the product in a particular application.

READ THE SDS BEFORE USING THIS PRODUCT