



FCT Water Treatment

Precipitant

WT-FE

General Description

WT-FE is used to precipitate heavy metal cations including copper, tin, and lead in a batch treatment mode from chelated wastewater and concentrates. WT-FE is a very effective precipitant that normally does not require an additional coagulant, although an anionic flocculent is typically used to facilitate precipitation. When used properly, WT-FE will reduce most heavy metal concentrations to below 1 ppm. Is not well suited for precipitation of nickel-bearing wastestreams.

Application

- WT-FE is used for batch treatment applications and is not suited for flow-through chemical precipitation or micro-filtration applications.

Miscellaneous

- Packaging comes in 500 pound cardboard carboys. Consult MSDS sheet for additional information.

Procedure

1. Waste solution should be adjusted from initial pH to approximately 1.5 to 2, and allowed to mix for 5 minutes.
2. If organics or oxidizers are present, approximately 1 pound of metabisulfite should be added per 100 gallons of waste solution.
3. Allow solution to mix for approximately 5 minutes.
4. Slowly add WT-FE until an ORP reading of +100 is obtained.
5. Allow solution to mix for 10 minutes with ORP reading remaining constant.
6. Adjust pH upwards to between 6.5 and 7.5.
7. At this point, the ORP reading should be approximately -200 to -250.
8. Add approximately 0.1% anionic flocculent to aid solid/liquid separation.
9. Allow solids to settle, then sample supernate for metals content.
10. If metals are within limits, decant supernate and send sludge to filter press.

Physical Properties

Properties	
Density	162 lbs per cubic foot
Appearance	Grey/black fine powder
pH	N/A
Odor	None

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