



PROMOTING EXCELLENCE IN THE ELECTRONICS INDUSTRY

WASTE TREATMENT SOLUTIONS

The process of manufacturing PCB's and metal finishing generates a challenging mix of chelated waste streams. Clark Int. can help you manage the removal of heavy metals such as nickel, zinc, cadmium, chrome, copper and lead while reducing sludge generation and effectively meeting your local discharge limits. Call us for more information on our chemical and customized solutions.

Our line of products includes:

- Precipitants
- Coagulants
- Flocculants
- Defoamers
- Bentonite Clays

Precipitants

- **WT-007** – Calcium polysulfide-based precipitant used for flow-through and micro filtration precipitation systems. Very cost effective, especially if you employ sludge recycling.
- **WT-140** – A DTC-based precipitant best suited for batch treatment of wastes containing strongly chelated nickel (e.g., electroless nickel solutions).
- **WT-660** – This product is suitable for flow-through precipitation. It provides an extremely wide operating window and can be used without a coagulant with optional sludge recycling.
- **WT-672** – All purpose precipitant suitable for treating a variety of waste streams typically encountered in the metal finishing industry.
- **WT-676** – A concentrated proprietary blend for chelated or complexed heavy metals suitable for batch treatment and flow-through precipitation systems. A coagulant is normally needed in conjunction with this product.
- **WT-679A** – Precipitant suitable for membrane filtration systems.
- **WT-680** – A blend of organic and inorganic sulfur-based chemistry that addresses a variety of mixed metal waste streams.
- **WT-721** – An inorganic precipitant that does not out-gas at low pH levels and is not toxic to aquatic environments. Particularly effective for a wide variety of metals.
- **WT-Fe** – Iron powder blend suitable for batch treatment and chelated nickel solutions.

(See back for additional waste treatment solutions)



Coagulants

- **WT-300** – An inorganic coagulant and a detackifier suitable for solutions which contain organic solvents.
- **WT-426** – A proprietary iron-based product that includes an organic cationic coagulant. It is effective as a replacement for ferrous sulfate.
- **WT-431** – An economical aluminum sulfate-based inorganic coagulant well suited for low pH coagulation requirements.
- **WT-470** – An aluminum chlorohydrate-based coagulant with organic water-soluble polymers is well suited for a variety of coagulation requirements especially in the presence of surfactants or organics.
- **WT-500** – A series of organic coagulants including polyamines and DADMACs.

Polymers

- **WT-231** – An anionic emulsion suitable for both batch treatment and flow-through precipitation.
- **WT-232** – Anionic polymer with a wide operating window.
- **WT-235** – A cationic emulsion suitable for flow-through, batch treatment, and micro filtration applications.
- **WT-50 FE** (flow enhancer) – A densely charged polymer ideally suited for micro filtration applications to increase system flows.

Defoamers

- **WT-111** – Very effective defoamer used in waste treatment systems.

Please visit us at www.clarkint.com