Supertex

Product Code: 2900009
Revised Date: 07/24/2009

Supertex
(For Copper Plating)

Supertex is a liquid addition agent that replaces rochelle salts in cyanide copper plating solutions. It is used for all copper cyanide plating solutions, and strikes. It reduces cyanide consumption, carbonate build-up, and grain size.

Supertex also increases the plating speed and allowable current density, efficiency and lustre.

Supertex is used for barrel and rack plating and produces a rare ductile copper which buffs like butter.

Supertex is used for carbonizing stop-off because it gives a dense fine-grained deposit. It also is used for oxidized copper finishes and in bronze and brass plating.

BRIGHTER, MORE UNIFORM, SOFTER DEPOSITS

Supertex aids in producing brighter, more uniform softer and more ductile copper deposits at higher current densities. A 20% increase in cathode efficiency is normal. Semi-bright lusterous deposits are obtained which are easily buffed or in many cases may be bright nickel-plated without buffing. Nickel deposits over **Supertex** copper are brighter and of more uniform color because of the fine, uniform grain size of the copper deposited at all normal current densities.

REDUCES OPERATING COSTS

SUPERTEX retards the oxidation of cyanide with its subsequent breakdown into carbonates. Operating costs are reduced because of the reduction in cyanide consumption. A saving up to 50% in cyanide additions is normal.

WHY YOU SHOULD USE SUPERTEX

	Feature	**Benefit**
1.	Liquid easy to add. Mixes readily.	Measures quickly and accurately.
2.	Increases plating efficiency.	Cut plating time up to 20%.

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3.	Better anode corrosion.	Helps prevent anode polarization. Reduces carbonate build-up.
4.	Produces brighter, more uniform deposits over wide current density range.	eliminates buffing where uniformity is necessary.
5.	Produces softer, more ductile copper.	lowers metal polishing casts. Fewer cut-throughs. Copper is softer, less pressure is needed to make it flow. Reduces time necessary to burnish to high luster.
6.	Stabilizes bath so that breakdown of cyanide to carbonates is decreased.	lower cyanide consumption, fewer carbonate treatments Means lower operating costs. Better bath operations because carbonates are under control. Lower drag out costs.
7.	Excellent fine-grain structure.	Semi-bright deposits with good hiding power. Can be bright nickel-plated directly without buffing in many cases. Dense pore-free deposits prevents pin point hard spots when used as carburizing or nitriding stop-off.
8.	Excellent for use in strikes.	Stabilizes bath. Reduces carbonate build-up. Produces uniform salmon color over wide current density range.
9.	Deposits oxidize readily.	No special activating tips necessary to get good uniform oxidize finishes.
10.	All potassium compound.	Produces more stable bath. Allows higher plating speeds. Increased grain refinement and brightness over similar addition agents.

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TYPICAL APPLICATIONS

1. Copper strike solutions.
2. High speed barrel copper plating.
3. Stop-off for heat-treating.
4. Oxidized finishes.
5. Bronze plating.
6. Brass plating.

OPERATING CONDITIONS

Supertex is used at 1% by volume in cyanide copper strike and cyanide copper plating baths. It is also used at 1% by volume in brass and bronze plating baths. Aids in producing a uniform brass color in regular brass solutions as well as the high-speed brass formula. A laboratory check of the solution should be made before the conversion.

Supertex is operated from 0.5% oz - 2.0% oz by volume. Less than 1% will give a good pink color and up to 2% will give better brightness.

Observation of the plate appearance is the best control. When the copper color goes from a pink or salmon color to a brick red, a maintenance addition of **Supertex** should be made.

PACKAGING

Supertex is a liquid concentrate and is shipped in 5-gallon pails and 55-gallon drums. All containers are non-returnable, no deposit type.

CAUTION

Avoid contact with skin and eyes. Wear protective clothing, goggles and gloves. In case of contact, immediately wash with clean, cold water. In case of eye contact, immediately wash the eyes thoroughly by means of a continuous flowing stream of water directed into the eyes for 15 minutes. Consult a physician.

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WASTE DISPOSAL

Discharge **Supertex** into a waste disposal system. **Supertex** does not contain cyanides or strong alkaline salts.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

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