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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

SUPER - Q

bright copper and brass additive for cyanide systems

ACCU-LABS SUPER-Q is a liquid additive formulated to provide exceptional brightness in cyanide copper and brass plating solutions. SUPER-Q improves the appearance and brightness over a wide range of current densities at lower temperatures than were previously possible. SUPER-Q is also highly tolerant of organic impurities, making SUPER-Q the ideal choice for evaporative/recycling systems and reducing the need to carbon treat.

Features and Benefits

Exceptional brightness	Attractive finish for copper and brass
Tolerant of organic impurities	Reduces rejects and carbon treatment
Wide plating range	Useful in both barrel and rack applications
Low temperature performance	Reduces heating cost, carbonate build-up
Fine-grained deposit	Less nickel required for full brightness

Operating parameters - Copper plating baths

Copper metal	2.0 - 6.0 oz/gal (4.0 optimum)
Free sodium cyanide	0.5 - 3.0 oz/gal (1.5 optimum)
Caustic soda	0.2 - 1.0 oz/gal (0.5 optimum)
Sodium carbonate	2.0 - 10.0 oz/gal (4.0 optimum)
SUPER - Q copper additive	0.5 - 2.0 % by volume
#463 Grain Refiner (or other anode corroder)	2.0 - 6.0 oz/gal (as required)
Temperature	80 - 120°F
Cathode current density	5 - 50 amps per square foot
Anode current density	3 - 30 amps per square foot
Agitation	Mechanical suggested

Note: Caustic soda is not a required component, but will improve conductivity. Do not add caustic soda to baths used to plate die castings. Zinc contamination in these baths will tend to reduce brightness that might otherwise be achieved. Potassium salts may be used in lieu of sodium salts, if preferred.

Brass plating baths:

Operating conditions are similar for brass plating, *except* for the following:

Zinc metal	0.40 - 0.70 oz/gal (0.50 optimum)
pH (no caustic soda)	9.50 - 10.0

Maintenance of the plating solution

Copper and brass solutions vary widely in their chemical balances, plating efficiencies, desired brightness, and degree of contamination, post treatments, and other factors. No single addition schedule is suited to all of these different conditions. Your knowledge and experience are the best guides to proper maintenance of your solutions.

Copper Wetting Agent

This additive, an easily poured liquid, is added to cyanide copper plating solutions to modify the harmful effects of metallic impurities or organic contamination. It is used at the rate of 0.1% by volume and repeat additions should be made to maintain a foam blanket

Safety and handling

SUPER - Q is used with hazardous materials such as cyanide compounds. Proper handling techniques, personal protective gear and chemical hygiene should be observed with this and all chemical products. Read and understand the Material Safety Data Sheet before using this product.

Non-warranty

The information contained in this bulletin is, to the best of our knowledge, true and accurate. All recommendations are made without guarantee, and Accu-Labs, Inc. disclaims any and all liability arising from the use of this product or the information contained herein.