



E-Brite™ 30/30 Troubleshooting

combination of copper and

graphite anodes.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Discolored plating, chalky, brick red to black and sometimes peels off.	Organic contamination dragged in from cleaners or due to poor cleaning.	Change carbon filters or peroxide/carbon batch treatment. Improve cleaning and rinsing.
	Cyanide contamination - from previous copper cyanide process or other cyanide plating processes in the vicinity.	Temporary treatment with peroxide. LCD dummying. Trace and eliminate the sources of cyanide - such as cracked racks.
Non-adherent plating, particularly in LCD areas or upon bending.	Low E-Brite 30/31	Add E-Brite 30/31 1 to 2% by volume at a time - check Hull Cell plating results, then add to bath.
	Poor cleaning and surface preparation.	Ensure proper soak, electroclean and acid along with good, counter-flow rinsing.
Copper plating adhesion okay but copper and nickel plated parts, upon bend testing fail - problems more particular to barrel plating	Low E-Brite 30/31	Add E-Brite 30/31 , 1 to 2% volume at a time and check Hull Cell plating results. Carry out adhesion tests.
	Low pH	Add E-Brite 30/35 to raise pH to 9.8 to 10.0.
	Copper metal too high	Lower the copper metal by plating out of bath using graphite anodes or a

Iron contamination Dark, spongy deposits in Ensure good double counterflow rinsing after HCD areas accompanied acid pickling and before by poor adhesion in LCD plating to minimize acid and areas. iron contamination of plating bath. HCD dummy plate to remove iron. Remove fallen parts - fish out plating bath tank bottom with a magnet. Black non-adherent plating Lead contamination from HCD dummy plate to in HCD areas. remove lead on a periodic leaded brass or leaded steel parts being plated basis. Note: E-Brite 30/30 should not be used to barrel plate over pure lead. Example: bullets **Lower Current** Burned deposits in HCD Too much current areas No, or insufficient air Ensure good vigorous air agitation. agitation. Too low temperature Raise temperature to 120 to 140°F. Too low copper metal Raise copper metal to at (below 0.5 oz/gal.) least 0.8 oz/gal. (preferably 1.0 oz/gal.) by adding E-Brite 30/30. Low **E-Brite 30/32** Add E-Brite 30/32.

concentration if being used

in a particular bath.