

TROUBLE SHOOTING GUIDE

Contamination with foreign materials should be avoided. Copper, lead, cadmium, arsenic and antimony can cause problems with loss of brightness, dark deposits or poor colour. They can usually be removed by plating out or by zinc dust treatment.

Iron contamination should not exceed 80-100ppm. Iron can be removed by additions of hydrogen peroxide (1-2ml/l).

Problem	Reason	Remedy
Insufficient brightening and levelling. Low CD blue colouration.	Low Brightener	Add 0.3-2.0ml/L Brightener
	Low current density	Increase current density
Poor coverage at low current density.	Low chloride	Correct as per analysis
	Low Starter	Add 2-4ml/L Starter
High current density burning.	Low temperature	Heat solution
	Low zinc	Add zinc chloride as per analysis
	Excessive current density	Reduce
	Organic contamination	Carbon treat
Roughness, pitting.	pH too high	Reduce pH
	Suspended solids	Filter
Dark deposit.	pH too high	Reduce pH
	Iron (II) contamination	Add 1ml/L hydrogen peroxide for every gm/L iron (II) and filter
Deposit will not passivate easily.	Low Starter	Add 2-4ml/L Starter
	Excessive concentration of additive decomposition products	Carbon treat
Barrel hole "burning".	Low temperature	Heat solution
	Low chloride	Correct as per analysis
	Iron (II) contamination	Add hydrogen peroxide
	Decomposition products	Carbon treat
Spots developing during passivation.	Low Starter	Add 2-4ml/L Starter
	Poor rinsing after zinc	Improve rinsing
Solution milky or oil on surface	Excess Starter or Brightener	Add Alekos AZ Emulsifier or Solubiliser 5-20ml/L