

E-Brite 700 SB Troubleshooting Guide:

Problem	Cause	Solution
Cloudy deposits (MCD/HCD)	Low <i>SB-B</i>	Add <i>SB-B</i> in 0.05% increments (0.5 mL/L)
	Low pH	Adjust pH
	High make-up additive	Reduce make-up concentration + carbon filter
	Organic contamination	Carbon treatment
	Metallic contamination	Raise pH + carbon treatment
	Low agitation	Increase agitation
Cloudy Deposit (LCD Areas)	Low <i>SB-B</i>	Add <i>SB-B</i> in 0.05% increments (0.5mL/L)
	Low pH	Adjust pH
Dull Deposits (LCD Area)	Metallic contamination	“Dummy” solution at 4-5 ASF
Too Bright	High <i>SB-B</i>	Withhold <i>SB-B</i> adds
	Low make-up	Add make-up
Poor Leveling	Low <i>SB-B</i>	Add <i>SB-B</i> in 0.05% increments (0.5 mL/L)
	Low pH	Adjust pH
	Low agitation	Increase agitation rate
Poor Ductility	High <i>SB-B</i>	Withhold <i>SB-B</i> adds
	Low make-up	Add make-up
	High pH	Adjust pH
	Metallic Contamination	“Dummy” solution at 4-5 ASF
	Organic Contamination	Carbon treatment
Burning	Low nickel salts/boric acid	Add nickel salts/boric acid
	High CD	Reduce CD
	Low temperature	Adjust temperature
	Low agitation	Increase agitation
	Chromate contamination	High C/D “dummy” + high pH treatment
Skip Plating	High <i>SB-B</i>	“Dummy” solution at 4-5 ASF or withhold <i>SB-B</i> adds
	Metallic contamination	“Dummy” solution at 4-5 ASF (e.g., Zn, Cd, Pb)
	Low make-up	Add make-up
High Consumption of		

Make-Up	High drag-out Excessive carbon usage On filter used	Use reclaim tank Reduce amount of carbon
High consumption SB-B	High drag-out Excessive carbon usage Very high nickel conc. Low anode area (polarized anodes) Organic contamination	Use reclaim tank Reduce amount of carbon used Dilute solution Increase anode area Carbon treatment
Poor Corrosion Performance	Pits present in semi-bright and/or bright nickel Particulate matter present Microporous porous Chromium layer not Functioning (if used)	Add E-Wet 701WAIR or carbon treat Filter solution Inspect microporous nickel and/or carbon treat each solution
Peeling of Bright Nickel layer from semi-bright Nickel layer	Drying of semi bright nickel During part transfer Pickup of films during exit From semi bright nickel Or entrance to bright nickel	If consistent, insert rinse operation between semi bright and bright nickel solutions See above and/or carbon treat each solution
Trailing edges only	Parts are dipolar exiting From semi bright nickel System	Install live current exit from semi bright nickel (use approx.. 10% of normal rack current)
Leading edges only	Parts are bipolar entering Bright nickel solution	Reduce current density at these points, consider removal of some anode material
Bottom of Part/ Rack only	Too much current density Exit from semi bright nickel	Reduce current density (consider removal of some anode material)
Pattern after bright nickel	Drying of semi bright nickel Solution during part transfer	If consistent, insert Rinse operation between semi bright and bright nickel solutions
Pattern after bright nickel	Drying of foam from semi Bright nickel solution	Carbon treat solution to reduce foaming or reduce air agitation to minimize foam