

TROUBLE SHOOTING GUIDE

PROBLEM	REASON	REMEDY
Burnt deposits at high CD	<ol style="list-style-type: none"> 1. Cathode CD too high 2. Low metal content 3. Poor agitation 	<ol style="list-style-type: none"> 1. Reduce CD 2. Increase tin content 3. Improve agitation
Brittle Deposit	<ol style="list-style-type: none"> 1. Cathode CD too high 	<ol style="list-style-type: none"> 1. Reduce CD
Rough or grainy deposit	<ol style="list-style-type: none"> 2. Suspended particles in bath 3. Additives out of balance 	<ol style="list-style-type: none"> 2. Check anode bags: filter solution 3. Add additives in increments
Treeing	Lack of Carrier	Add Carrier in 1ml/L increments
LCD Dullness	Lack of Brightener	Add Brightener in 0.25ml/L increments
Dull deposits on corners (areas of high agitation)	Excess of carrier	Add additive in 0.5ml/l increments or Brightener in 0.25ml/l increments
Low CD dullness	High temperature	Cool solution
Poor throwing power	<ol style="list-style-type: none"> 1. Metal too high 2. Acid too low 3. Carrier and additive too low 	<ol style="list-style-type: none"> 1. Allow metal to fall by reducing anode area 2. Adjust acid content 3. Add Carrier in 1.0ml/L increments and additive 0.5ml/l increments (AVOID OVERDOSE)
Brown hazy deposit at medium CD	Excess Additive	Add 0.25-0.5ml/L Brightener
Peeling of bright deposits	Excess Brightener	<ol style="list-style-type: none"> 1. Add carrier 1 in 1ml/L increments 2. Reduce Brightener additions 3. Plate out
Patchy deposits	Low Brightener	Add 0.5ml/L Brightener
Low bath efficiency / slow plating	Low tin metal Low bath temperature	Keep the tin metal between 8 - 22g/l, Optimum 15g/l.