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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

CARB-OUT P

for removal of carbonates from cyanide solutions

Introduction

Cyanide platers are all too familiar with the problems of carbonate build-up: poor efficiency, reduced brightness, lost production from rejects, and slow plating rates. Freezing out carbonates is unpleasant at best, often impossible. That's why we've developed Carb-Out P!

Features and benefits

Contains no caustic or cyanide:

Bath balance is maintained

Powdered system:

Does not increase solution volume

Highly effective:

Removes carbonates even from potassium-based solutions

Ideal for evaporative and recycling systems:

Minimizes build-up of impurities

Guidelines for Use:

- 1) Determine exactly how much carbonate must be removed. Carbonate analysis is often highly inaccurate, so multiple tests are advised. Also, carbonate levels below 8 ounces per gallon are generally harmless, so it is only necessary to reduce to that level.
- 2) Determine the amount of Carb-Out P required. Use the following *example* as a guide.

	Example	Your tank
Current carbonate level (Na or K)	16.0	
Subtract acceptable carbonate level	<u>- 10.0</u>	
Carbonates to be removed	6.0	
Multiply by tank volume (gallons)	800	
Equals total ounces to be removed	4800	
Divide by 10.5 (Na) or 14 (K)	÷10.5	
Equals pounds of <u>Carb-Out P</u> required	457	

For a potassium-based solution, 342 pounds of Carb-Out P would have been required.

- 3) Transfer the solution to a holding tank capable of containing both the solution and the **Carb-Out P**. While mixing gently (to avoid excessive dust), sprinkle the **Carb-Out P** over the solution. Continue mixing for one hour.
- 4) Allow the solids to settle out for 8 hours minimum. Filter the upper liquid back into the plating tank. Analyze chemistry and adjust if necessary before plating.
- 5) Excess solution, if any, can be used for replenishment of drag-out losses from the solution or disposed of in accordance with all applicable federal, state, and local regulations. Residues will contain some of the original solution and must also be disposed of in accordance with all applicable federal, state, and local regulations.

Safety and handling

Observe proper safety and handling guidelines when handling or working around this product; proper personal protective gear should be worn including eye protection. Read MSDS prior to use.

Non-warranty

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