

CHROMOX – CHROMIC ACID RECOVERY

Extending the life of Chromic Acid Process Baths

The drive for this technology was the major environmental issue facing industry to replace or limit the use of Chromic Acid. Replacement of the process with a more environmentally friendly method, using less harmful chemicals is not an easy issue. Light Environmental Inc. has solved this problem by developing Chromic Acid Recycling technology.



Chromic Acid Anodizing

Anodizing is an anodic oxidation process used to increase the naturally occurring aluminum oxide layer on aluminum surfaces, the process is carried out in a dilute acid solution with the work piece being made the anode.

The chromic acid process is used where high corrosion resistance is required with the subsidiary requirement of crack detection.

Chromox can be used to regenerate chromic-mineral acid solutions

- Fix the cost for chromic acid process
- Achieve best available technology
- Put forward for best practice award
- Maximum waste minimization

Prior to anodizing, aluminum is frequently etched in a sulphuric/chromic solution or Tri-Acid solution. These processes become less efficient over time due to trivalent chromium content, which leads to a gradual increase in density, (large specified free chrome and acidity concentration). Unless treated to improve its quality, the bath presents the user with an expensive disposal problem due to the chrome present and the high acidity of the solution. Chromox technology yields oxidation of trivalent chromium and maintenance of acidity.



Specific Advantages of Regenerating Chromic Acid

- No loss of Chromic Acid.
- No regeneration chemicals and no risk of sulphate contamination.
- Eliminates chloride build up.
- Stable process control.
- Reduced effluent volumes.
- Chemical addition required only for drag out losses.
- Modular concept to cater for increased production load.
- Reduce the need for chemical handling.
- Pay back in less than 2 years.

Learn More

To learn more about our **Chromox Solution** or any of our other wastewater solutions, please visit our web site at www.lightenvironmental.com or call our Corporate Sales Office at: 1-816-537-9190.

We look forward to providing your next wastewater solution.

LIGHT ENVIRONMENTAL, INC.

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