## TriCOL"' Decorative Trivalent Chromium Plating Processes

Regulations on Hexavalent Chromium electroplating aren't the only reason to convert to TriCOL ${ }^{\mathrm{TM}}$ decorative plating processes. The performance benefits of trivalent chromium electroplating and waste treatment cost reductions are also significant drivers to switch.

Key Performance Benefit: Our Tricol processes provide a burn-free, high current density plating range -- so no more worrying about burning the edges of your parts if you need to crank up the current. Now you can get excellent chrome coverage in recesses or other challenging low current density areas without high current density burning.

Trivalent Chromium Plated Deposit


Hexavalent Chromium Plated Deposit
Cross Section of Deposit
on a square bar


Reduced Waste Treatment Time \& Cost: Waste treatment of a TriCOL trivalent chromium plating solution can be done in one step rather than the 3 steps typical of a hexavalent chromium plating solution. This saves a significant amount of time and money and generates a small fraction of waste sludge compared to hexavalent solutions.

Trivalent Chromium Plating
Contains 2.8 opg Chromium


Calcium Hydroxide $\$ 53 \leftarrow \begin{gathered}88 \% \\ \text { LESS }\end{gathered}$
F006 Waste Sludge 334 Ibs
Total Cost \$53

Hexavalent Chromium Plating
Contains 21 opg Chromium
THREE STEPS
Chromium 500 lbs
Sodium Bisufite \$627
Sulfuric Acid \$131


F006 Waste Sludge 3,036 lbs
Total Cost \$1,243

## \$2,756 <br> Cost Per Year

