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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

ACCU-LABS SILVERSTAR 2000

General Description:

Accu-Labs SilverStar 2000 process produces uniform semi-bright to brilliant deposits at flexible operating parameters. The process offers high conductivity with good plate distribution; and performs equally as well in barrel and rack including printed circuit and electronic connector applications.

Standard All Purpose Bath Guidelines:

Silver Metal	3.0-4.0 Troy Ounces/Gallon
Potassium Carbonate	3.0-5.0 Ounces/Gallon
SilverStar 2000 Wetter	2% by volume
SilverStar 2000 Brightener	1% by volume
Free Potassium Cyanide	12.0 Ounces/Gallon (10.0-16.0)
Temperature	70-80°F
Current Density	5-10 ASF for Maximum Brightness (use SilverStar HCD for higher current extension)
Agitation	Cathode Rod or Barrel Rotation

Note: The above is recommended for new makeup; if conversions are performed then SilverStar Conversion Wetter may be required. Discuss with your Accu-Labs Representative prior to bath conversion.

Silver Strike:

If a silver strike is desired it should be made up at 0.2-0.4 Troy Ounces/Gallon of silver metal and Free Potassium Cyanide should be 10.0-15.0 Ounces/Gallon. Parts should be processed at 4-6 volts and should be introduced to the bath with live current.

Solution Control:

Regular metal concentration checks by titration are the best way to maintain effectiveness and economy. A titration procedure is available upon request.

SilverStar 2000 is best controlled by use of a conventional plating test, such as the Hull Cell. The Hull Cell will determine the amount of carrier needed to bring the bath to optimum operating level, provided that all other constituents are within proper chemical composition range. The process panels will monitor the production work and keep it cosmetically acceptable.

NOTE: This replenishment recommendation is a guideline only; certain applications may require more or less depending on the condition of equipment i.e. loss due to drag-out, equipment leaks, operating practices etc.

A sample should be sent to **Accu-Labs** periodically to serve as a check against one's own analysis.

Handling Considerations: Always wear eye protection and personal protective gear when handling or working with this product; do not take internally and avoid contact with skin or eyes.

Disclaimer: *While we believe the aforementioned information to be true and accurate; Accu-Labs, Inc. disclaims any liability since the conditions of use are beyond our control.*