



Product Name: ELECTROPURE® COPPER SULFATE SOLUTION

Revision Date: 04-10-2015

SAP No: 2200364

Technical Information

ELECTROPURE® COPPER SULFATE SOLUTION

INTRODUCTION

Electropure® Copper Sulfate Solution is manufactured using only sulfuric acid and pure copper metal. Recycled copper is not used in the production process. This produces a high purity material, which is low in both organic and inorganic impurities. It is intended for the make-up and replenishment of acid copper plating solutions, but its high purity also allows it to be used for the make-up and replenishment of printed circuit board plating solutions. Purification or filtration is not required before use.

	Typical	Specification
Copper (Cu) -	9.12 oz/gal (68.8 g/l)	9.0 oz/gal (67.5 g/l) Minimum
CuSO ₄ • 5 H ₂ O -	36.0 oz/gal (270 g/l)	35.4 oz/gal (265.5 g/l) Minimum
Iron (Fe) -	< 2 ppm	10 ppm Max
Lead (Pb) -	<1 ppm	2 ppm Max
Nickel (Ni) -	< 0.4 ppm	1 ppm Max.
Zinc (Zn) -	< 0.4 ppm	1 ppm Max.
Manganese (Mn) -	< 1 ppm	5 ppm Max.
Specific Gravity -	1.167	1.16 - 1.185



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PROPERTIES

Formula - $\text{CuSO}_4 \cdot 5 \text{H}_2\text{O}$ (Molecular Weight - 249.69)

Appearance - Clear, blue solution

Weight - 9.7 lbs/gal (1163 g/l)

WASTE DISPOSAL

This material must be disposed of in accordance with all applicable federal, state, provincial, and local regulations and permits. Consult the SDS for additional regulatory information. The information contained herein is general in nature and may not apply to each application.

GENERAL SAFETY PRECAUTIONS

When working with this product(s), ensure that all health, environmental, and safety regulations and standards are met. Avoid direct contact with this material. Do not inhale associated mist, vapors, and/or dust. Maintain and limit exposure as recommended by OSHA, ACGIH, and other federal, state/provincial and local regulations. Wash contaminated clothing before reuse. Always comply with the Hazard Communication Standard, 29 CFR 1910.1200 and Workplace Hazardous Materials Information System. Emergency showers and eyewashes must be readily available. Wear the appropriate personal protective equipment for the chemistry being handled.

It is recommended that the plating chemistry product(s) referred to in this Technical Information Sheet be used: (a) in accordance with the information provided in product specific SDS; and (b) in compliance with all applicable requirements and guidelines established by OSHA, NIOSH, ACGIH, NFPA, and others.

NOTE: A Safety Data Sheet (SDS) for this product(s) is available upon request from Atotech USA LLC, Customer Service/Sales Support Group, 1750 Overview Drive, Rock Hill, SC 29730.



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REVIEW SDS BEFORE USING THIS PLATING CHEMISTRY AND FOR SPECIFIC INFORMATION.

A precautionary approach should be used when there is potential for chemical exposure -- this includes minimizing exposure potential, rapid decontamination, and medical follow-up.

TELEPHONE NUMBERS

Atotech USA, LLC

General Information (803) 817-3500

To Place an Order: 1-800 PLATING

Atotech Canada Ltd.

(905) 332-0111

IMPORTANT NOTICE REGARDING THIS INFORMATION:

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