

Product Data Sheet

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PRODUCT #: N8021

POSICLEAN™ B

Acid Copper Cleaner

DESCRIPTION: An acid, organic, water soluble, cleaner which has been formulated for use with aqueous or semi-aqueous photoresists. It has been designed to enhance cleaning of handling soils (fingerprints), as well as oxides and tarnish. **POSICLEAN™ B** is supplied in concentrated form. It can be followed by a microetch to achieve increased adhesion.

BENEFITS:

- Provides complete cleaning-removes both organic and inorganic soils without excessive copper etch
- Etch rate at 100°F is less than 1 millionth inch per minute
- Effective on fingerprints at low concentration
- Rinses easily in warm water, spray or soak

SPECIFICATIONS:

Density:	1.07 gm/ml, 8.9 lbs./gal.
pH (10% working solution) :	< 1
Flash Point (TCC):	None
Shelf life:	Indefinite

INSTRUCTIONS:

Concentration:	10% by volume
Temperature:	70° - 100°F
Time:	2 - 5 minutes

Control: Maintain concentration according to analysis on back. The solution is considered spent when the pH reaches 2.5.

Equipment should be constructed of polypropylene, polyethylene or PVC. Heaters should be quartz or Teflon®.

CAUTIONS: **POSICLEAN™ B** cannot be used as a spray cleaner.

There is a slight increase in etch rate as copper concentration increases. Etch rate should be determined by standard weight loss tests.

POSICLEAN™ B is acidic; glasses or goggles and gloves should be worn when handling this product. In case of contact with skin or eyes, flush immediately with water and obtain medical attention. For further information, refer to Material Safety Data Sheet.

DISPOSAL: To treat spent **POSICLEAN™ B**, add caustic to raise the pH to 7.0-8.0. Add 5% ferrous sulfate solution and allow precipitate to form to remove complexed copper. Let settle for four hours and decant. Disposal of precipitated metals in accordance with all local, state and federal regulations.

POSICLEAN™B
Concentration Analysis

Equipment required: 25 ml burette
250 ml Erlenmeyer flask
50 ml volumetric pipette
Dropper

Reagents required: 1.0N sodium hydroxide (NaOH) standard solution
0.04% Bromphenol Blue indicator

Procedure:

1. Pipette 50 ml of ***POSICLEAN™B*** working solution into a 250 ml Erlenmeyer flask.
2. Add 4-5 drops Bromphenol Blue indicator
3. Titrate with 1.0N sodium hydroxide to a blue end point. Color change is yellow to bright blue.

Calculation: mls of NaOH X N of NaOH X 0.705 = % ***POSICLEAN™B***

This product should be used only for its intended purpose. The information stated above is based on our laboratory tests and experience, and is accurate to the best of our knowledge. Since actual use is beyond our control, the recommendations or suggestions are made without warranty, expressed or implied.