

Product Data Sheet

Date: 01/03/06

Supersedes: 02/22/02

PRODUCT #: N5105

CIRCUTEK AC-300

Liquid Acid Cleaner

DESCRIPTION: An acid solution formulated specifically to remove the chromate coating from copper-clad laminate prior to innerlayer cleaning and imaging, on oxide lines or in applications where the chromate coating must be removed prior to microetching.

INSTRUCTIONS:

CIRCUTEK AC-300	8 - 12% by volume
Deionized Water:	Balance
Temperature:	85 - 115°F
Time:	Variable

CIRCUTEK AC-300 is low foaming when heated to 85°F for use in spray applications. Dwell times of 30 seconds to 1 minute are usually sufficient to remove the chromate coating. It is normally used at 10% v/v concentration. Speed of chromate removal and effectiveness of cleaning can be increased by heating the bath from 85°F to 115°F. For immersion applications, a 10% v/v solution of **CIRCUTEK AC-300** can be used from 60°F to 110°F.

CIRCUTEK AC-300 is capable of cleaning approximately 10,000 square feet of copper surface per gallon of concentrate. In most cases, no pretreatment is necessary for removal of oil and grease before using.

EQUIPMENT: Use in acid-resistant equipment such as polyethylene, polypropylene, PVC, or fiberglass. Heaters should be quartz or Teflon. Do not use metal (including stainless steel) equipment or parts because of its strong acid properties.

CAUTIONS: A strong acid solution. Use safety goggles and rubber gloves during handling. In the event of eye contact, flush with copious amounts of water and see a physician.

DISPOSAL: Highly acidic material; must be neutralized before discharging into waste treatment systems.

Treat the spent solution with a dilute solution of caustic soda (20 - 50% by weight) and discharge to waste treatment stream.

Dispose of treated material in accordance with all local, state and federal regulations.

ANALYSIS:

Equipment 20 ml pipet
50 ml buret
250 ml Erlenmeyer flask

Reagents: 1.0N sodium hydroxide solution
Methyl orange indicator

Procedure:

1. Pipet 20 mls of a working bath into a 250 ml Erlenmeyer flask.
2. Add 50 mls of deionized water and 5 drops of methyl orange indicator solution.
3. Titrate with 1.0N sodium hydroxide from pink to a yellow endpoint.

Calculation:

mls NaOH X N of NaOH X 6.67 = % by volume **CIRCUTEK AC-300**

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.