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Product Data Sheet

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PRODUCT #: N8657

MAGNASTRIP 500

Solder Mask Remover

DESCRIPTION: An alkaline liquid designed to remove fully cured liquid photoimageable acrylic solder masks from printed circuit boards. ***MAGNASTRIP 500*** works quickly without damage to circuitry or laminate. It breaks down the mask so it rinses easily.

BENEFITS:

- **Fast removal, easy rinsing**
- **Removes solder masks completely with no attack on circuitry or laminate**
- **Effective on Coates Imagecure, Electra, Enthone DSR-3241, Lackwerke Peters, Vantico Probimer 77, Shipley OPSR 9000, Taiyo LPI solder masks.**

EQUIPMENT:

Tanks can be constructed of stainless steel or polypropylene. Heaters may be stainless steel, titanium or Teflon[®]. Keep tank covered to reduce evaporation.

**MAKE-UP/
OPERATING
INSTRUCTIONS:**

Density:	1.15 gm/ml, 9.5 lbs./gal.
pH:	14
Flash Point (TCC):	> 210°F.
VOC Content (by EPA Method 24):	11%, 1.1 lbs/gal.
Concentration:	Use as supplied
Temperature:	120° - 200°F
Strip Time:	15 minutes – 1 hour

Solder masks will gradually soften and break down. If needed, brush lightly with a soft brush to accelerate removal. Rinse with water spray to remove softened mask.

Replace volume lost by evaporation with fresh material. Check specific gravity and add water if necessary.

MAGNASTRIP 500 is not effective on screen printed epoxy thermal cured masks.

**ANALYSIS &
REPLENISHMENT:**

ANALYSIS PROCEDURE FOR MAGNASTRIP 500

Determination of concentration of MAGNASTRIP 500

Equipment: 2 ml pipette 250 ml Erlenmeyer flask or beaker
50 ml buret pH meter

Reagents: 1.0N HCl
Phenolphthalein Indicator
DI water

Procedure:

1. Pipette 2 ml sample of **MAGNASTRIP 500** into the 250 ml Erlenmeyer flask or beaker.
2. Add 75 – 100 mls of DI water.
3. Add 6 drops of phenolphthalein indicator
4. Titrate with 1.0N HCl from a red to a clear endpoint.
5. Record mls of 1.0 N HCl to attain end point.

Calculation:
$$\frac{\text{mls of 1.0N HCl titrate}}{2} = \text{Normality of MAGNASTRIP 500}$$

Maintenance: Maintain normality between 3.9 and 4.9 for optimum performance.
Replace 20% of bath to increase normality by 1.0N.
Replenish lost volume with fresh **MAGNASTRIP 500**.

CAUTIONS: **MAGNASTRIP 500** is strongly alkaline; avoid contact with skin and eyes. Avoid breathing vapor and mists. Glasses or goggles and rubber gloves should be worn when handling this product. In case of contact with skin, rinse immediately with cold water. For eye contact, flush immediately with water for at least 15 minutes and obtain immediate medical attention. See Material Safety Data Sheet for further information.

DISPOSAL: Neutralize and dispose of in accordance with all local, state and federal regulations.

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.