

Product Data Sheet

Date: 07/21/08
Supersedes: 07/14/08
PRODUCT #: N8658

MAGNASTRIP 600 HF

Solder Mask Remover for Halogen Free Laminate

DESCRIPTION: An alkaline liquid designed to remove cured liquid photoimageable solder masks from halogen free laminates. *MAGNASTRIP 600 HF* works quickly without damage to circuitry on most laminates. It breaks down the mask so it rinses easily with little need for brushing or scrubbing to remove fillers.

BENEFITS:

- **Compatible with most halogen free laminates**
- **Removes solder masks completely with no attack on circuitry or laminate**
- **Proven to be effective on most soldermasks**

SPECIFICATIONS:

| | |
|--|---------------------------|
| Density: | 1.05 gm/ml, 8.6 lbs./gal. |
| pH: | 14 |
| Flash Point (TCC): | >200°F. |
| VOC Content (by EPA Method 24): | 15%, 1.3 lbs./gal. |

INSTRUCTIONS:

| | |
|-----------------------|--|
| Concentration: | Use as supplied |
| Temperature: | 70° - 80°C |
| Strip Time: | 15 minutes – 1 hour (Dependent on mask type) |

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.

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

ANALYSIS:**For bath control:**

Equipment required:

- 50 ml buret
- 10 ml pipet
- 150 ml beaker
- pH meter

Reagents required: 1.0N Hydrochloric Acid

Procedure:

1. Pipet a 10 ml sample into a 150 ml Beaker.
2. Add 50 ml of distilled water. Mix.
3. Titrate with 1.0N hydrochloric acid to a pH of 10.5.

Calculation: mls of HCl x N of HCl x 9.8 = % active *MAGNASTRIP 600 HF*
Maintain % active *MAGNASTRIP 600 HF* concentration >75%

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.

REPLENISHMENT: If the percent concentration of **MAGNASTRIP 600 HF** is within range, but solution level is low, replace volume lost by evaporation with addition of fresh **MAGNASTRIP 600 HF**.

Maintain the strength of primary active component by additions of **MAGNUM 402**. For every 10% addition of primary active material needed, added 0.57 gallons of **MAGNUM 402** per 100 gallons working bath.

ANALYSIS: **For incoming raw material analysis:**

Procedure:

1. Pipet a 10 ml sample into a 150 ml Beaker.
2. Add 50 ml of distilled water. Mix.
3. Titrate with 1.0N hydrochloric acid to a pH of 3.8.

Calculation: $\text{mls of HCl} \times \text{N of HCl} \times 2.9 = \% \text{ total } \mathbf{MAGNASTRIP 600 HF}$
Result should be 95% - 105%.

CAUTIONS: **MAGNASTRIP 600 HF** 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.