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ISO 9001 Registered Quality System

QMI Certificate # 004008

Burlington, Ontario, Canada

Tin & Solder Stripper

Cat. No. 41692

Tin & Solder Stripper is an acidic, ferric nitrate based solder stripper designed for use in printed circuit board fabrications for removal of solder and tin deposits from copper substrates. It can be used to ensure a clean, solder free surface for subsequent plating and other processing operations.

It is designed to be used in immersion or spray applications. Tin & Solder Stripper provides minimal sludge generation during operation and a low copper attach rate. It is easily waste treated and contains no hazardous fluorides, fluoborates, or peroxides. It operates at room temperature for ease of use and reduction of corrosive vapors.



OPERATING CONDITIONS

	Nominal	Range
Temperature	27°C (80°F)	21°C - 35°C (70 - 95°C °F)
Dwell Time*(immersion)	3 minutes	1 – 5 minutes
Dwell Time* (spray)	1 minute	20 seconds – 2 minutes

*Dwell times are based on a nominal thickness of 0.3 mil (7.6 micron) of tin or tin/lead

Agitation – Mechanical for immersion operation

Oscillation is recommended in spray applications

BATH OPERATION AND MAINTENANCE

No analysis is required. The solution is replaced when the stripping rate is reduced to an unacceptable level.

Solution volume should be maintained with additions of Tin & Solder Stripper. The bath life can be extended by replacing 10% to 20% of the working bath with fresh solution.

Disclaimer:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. M.G. Chemicals Ltd. Does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.



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The Tin & Solder Stripper can also be maintained using specific gravity to control automatic feed and bleed additions. The specific gravity controller should be set to maintain a specific gravity between 1.250 and 1.300. Lower specific gravity provides greater speed while high specific gravity will allow more economical operation.

Tin & Solder Stripper can hold 75-100 g/L of tin metal or 125-150 g/L of tin/lead. To determine the volume of solution used per panel, it is necessary to determine the amount of tin or tin/lead per panel. For tin, 1mil sq.ft. is equivalent to 21 grams 91 micron sq. meter is equivalent to 8.8 grams). The volume of solution per panel can then be calculated as shown below.

For tin:

Tin & Solder Stripper solution used = mil/sq.ft./panel x 18 g/mil sq.ft. x 1L/100g

For tin/lead:

Tin & Solder Stripper solution used = mil sq.ft./panel x 21 g/mil sq.ft. x 1L/150g

EQUIPMENT

All materials in contact with the solution should be constructed of quartz, glass, 316 stainless steel, titanium or plastics such as polypropylene, high density polyethylene, PVC, or Teflon[®]. Plastisol coatings are also acceptable.

WASTE TREATMENT

Adjust the pH to 8.5 with caustic soda to precipitate the metals. Dispose of all materials in accordance with all applicable federal, state/province, and local requirements.

SAFETY

Proper safety equipment including face and eye protection, gloves, boots, and aprons should be used when handling this material. In case of exposure, flush the affected area with clean water and CONTACT A PHYSICIAN. Proper ventilation should be provided to avoid exposure to mists and vapors.

Consult the Material Safety Data Sheet for safety, health and environmental information.

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