BLT Circuit Services Ltd
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TECHNICAL DATA

TIN LEAD STRIPPER 1540

Description:

1540 is a high performance single stage stripping solution that has been specially developed for the removal of Tin / Lead alloys from printed circuit boards by immersion.

The advance non-peroxide formulation does not contain any fluorides or fluoroborates and this avoids the shortcomings associated with many conventional strippers. Problems such as exothermic heat generation, white residues and “measling” of the laminate are completely eliminated.

1540 is used most effectively at temperatures in excess of 24°C, when it rapidly strips the solder plate and leaves a clean bright finish on the copper. The solution is very economical due to its high capacity for Tin / Lead.

Benefits:

- Very low attack on substrate copper.
- Fast stripping rate (6 microns in 60 seconds) at 25°C.
- Non-exothermic regardless of workload.
- No residue or attack on epoxy laminate.
- Strips fused Tin / Lead quickly and efficiently.
- High capacity for Tin / Lead.

Physical Properties:

Composition:	Stabilised Nitric Acid.
Appearance:	Yellow / Brown Liquid
S.G:	1.225
P.H:	<1

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Equipment:

Tank equipment fabrication from polypropylene is recommended. Unplasticated PVC may also be used. The solution is compatible with Titanium and Hastelloy.

Extraction:	Recommended.
Heaters:	Not normally required although PTFE or Titanium may be used to heat cold solutions up to optimum temperature.
Racks:	Plastic coated stainless steel preferred.

Operating Conditions:

Use as supplied at 24-30°C

Solution Make-up:

Ensure tank is clean before filling with concentrated 1540.

Operation Instructions:

Rack the boards and place in the solution until completely stripped. Lateral agitation is recommended to ensure complete stripping of through-holes.

Solution Control:

Change the solution when stripping time has slowed to greater than 1 minute.
Check the Tin / Lead content by using the following instructions:

- Pipette 5ml of working solution into a conical flask.
- Add 100ml of De-mineralised water.
- Add 10ml of 50% Sulphuric Acid.
- Titrate against 0.1N Potassium Permanganate until solution is pink.
- Record volume of 0.1N Potassium Permanganate added.

Concentration of Tin / Lead = Titration in 5 x 2.0gpl.
Change solution when Tin / Lead concentrate reaches 80gpl.

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Consumption Rate:

1.0 – 1.5m² of 7.5 Micron Tin / Lead per litre of 1540.

Safety Precautions:

1540 contains corrosive acid and oxidants and the appropriate safety precautions, such as the use of goggles and gloves, should be applied when handling the new or spent solutions.
In the case of contact with the skin, flush the affected area immediately with a large amount of water.
In the case of contact with the eyes, flush immediately with clean water and seek medical attention.
Avoid breathing in the vapours when handling or operating the solution.
Refer to separate Health and Safety sheet.

Storage:

Away from alkalis and combustible materials.
Do not store in direct sunlight.
Temperature 10-20ºC

Waste Disposal:

Dispose of spent solution in accordance with relevant legislation such as:
Disposal of Poisonous Wastes Act 1974
Control of Pollution Act 1974
We would recommend that you employ the services of a competent waste disposal contractor.
The spent solution will contain a high proportion of Tin and Lead, which must be considered when processing through a suitable effluent system to ensure that local water authority discharge limits are complied with.

Legal Disclaimer:

The above is based on the present state of our knowledge of the product at the time of publication. It is given in good faith; no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for the purpose.

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