



BLT Circuit Services Ltd
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Technical Data

Sprayable Tin Stripper 1535

Description

1535 is a high performance single stage stripping solution, which has been specially developed for the spray removal of tin from printed circuit boards with minimal copper attack.

The advanced 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.

1535 is used most effectively at temperatures in excess of 24°C, when it rapidly strips the tin plating and leaves a clean bright finish on copper. The solution is very economical due to its high capacity for tin.

1535 can be controlled using **BLT Auto Doser Sn/Pb/5**.

Advantages

- Non-sludging.
- Spray or immersion.
- Fast stripping rate (5micron in 20 seconds at 25°C).
- Non-exothermic
- High capacity.
- Can be controlled using Auto Dosing System.
- Bright, oxide free, non-etched copper surface.

Properties

Composition: Stabilised Nitric Acid.

Appearance: Yellow/brown liquid.

S.G: 1.215

pH: <1



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Equipment

Spray equipment fabricated from polypropylene is recommended.
Unplasticised PVC may also be used. The solution is compatible with Titanium and Hastelloy.

Extraction: Essential to ensure Nitric Acid WEL is not exceeded.
Heaters: Not normally required although PTFE or Titanium may be used to heat cold solutions up to optimum temperature.

Operating Conditions

Use as supplied at 24-30°C.

Solution Make-Up

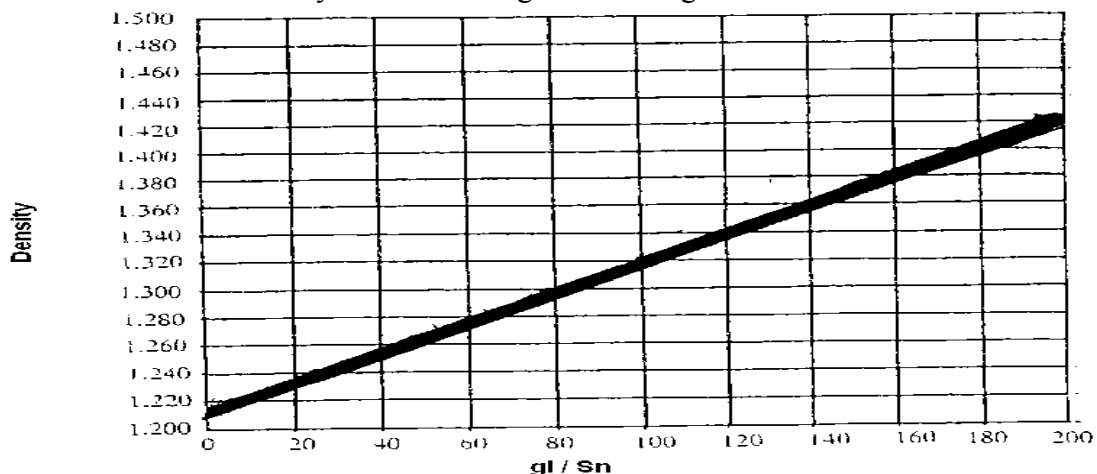
Ensure machine sump or tank is clean before filling up with concentrated **1535**.

Operating Instructions

Load the boards onto the spray machine and adjust conveyor speed so that the boards are completely stripped when they emerge from the spray chamber.
Rinse the panels well and dry.

Solution Control

Sn Concentration V's Density for Controlling **1535** during use.





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

1. Pipette 1ml of working solution into a conical flask.
2. Add 100mls of De-ionised Water.
3. Add 10mls of 50% Sulphuric Acid.
4. Titrate against 0.1N Potassium Permanganate until solution is pink.
5. Record volume of 0.1N Potassium Permanganate added.

Concentration of Tin = titration in 5 x 10.0 gpl.

Change solution when Tin concentration reaches 150-200 gpl.

BLT manufactures an auto-dosing unit Sn/Pb/5 to enable the product to be used fully automatically.

Consumption Rate

3.0-5.0 M² of 5.0 micron Tin per litre of **1535**.

Safety Precautions

1535 contains corrosive acids 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 case of contact with the skin, flush the affected area immediately with a large amount of clean water. In case of contact with the eyes, flush immediately with clean water and seek prompt medical attention. Avoid breathing the vapours when handling or operating the solution.

Refer to separate Health & Safety Sheet.

Storage

Away from alkalis and combustible materials.

Do not store in direct sunlight.

Temperature 10-20°C.



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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 licensed waste disposal contractor.

The spent solution will contain a high proportion of Tin, which must be considered when processing through a suitable effluent system to ensure that local water authority discharge limits are complied with.

Warranty

All reasonable endeavours have been made to ensure that the information contained in this data sheet is accurate, but it is submitted on the express condition that BLT Circuit Services Ltd. shall be under no liability whatsoever in respect thereof or for any loss, injury, damage or liability of whatsoever nature arising, suffered or incurred as a consequence of its use.