



Sunbrite 44

Sunbrite 44 is a liquid acidic product formulated for cleaning and conditioning the solder plate after processing the circuit boards through an alkaline (ammoniacal) etchant solution.

The functions of the Sunbrite 44 solution: to remove any residue left on the surface from the ammoniacal etchant solution, activate and brighten the solder plate prior to the reflow operation.

Features & Benefits

Non-foaming	Use in spray or immersion process; smaller inventory footprint
Inhibited	Controlled action, less rework, higher productivity

Operating Conditions

Sunbrite 44 may be used by an immersion or spray operation.

Concentration	50 – 75% (vol) with water
Temperature	Room – 90°F (32°C max)
Time	15 – 90 sec
Equipment	PVC, Polypropylene, Polyethylene, and titanium

Titration Method

1. Pipette a 5 mL sample of Sunbrite 44 into a 250 mL Erlenmeyer flask and add about 75 mL of water.
 2. Add 7 to 8 drops of Methyl Orange indicator.
 3. Titrate with 1.0 N Sodium Hydroxide solution until the sample turns from red to orange, then yellow. The first yellow color is the endpoint.
 4. Record the number of mL titrated.
- Calculation



mL 1.0 N NAOH titrated x 7.09 = % (vol) Sunbrite 44

Waste Disposal

Discharge Sunbrite 44 solution to settling tank to neutralize and remove metallics. Spent Sunbrite 44 solution contains salts of copper, lead and tin. Sunbrite 44 may be neutralized with soda ash or caustic soda. Always consult your local authorities for the regulations in your area.

Caution

Sunbrite 44 is an acidic product and should be handled accordingly. Avoid skin, eye and oral contact. Wear protective clothing, gloves and goggles when handling the product. Flush exposed areas immediately with clean, cold water. Contact a doctor immediately in case of injury.

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Our People. Your Problem Solvers.

For more information on this process,
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