



Inner Layer Oxide Treatment and Tinning Line

User Guide

INNER LAYER OXIDE TREATMENT AND TINNING LINE



TANK LAYOUT

INNER LAYER OXIDE TREATMENT BATH MAKE-UP for 5 Litre Tank

TANK 1 - CIRBOND 9550

Operating Temperature: 35°C
Immersion Time: 1 Minute

Chemical Make-up:

Add 2 litres of Cirbond 9550 (part A) to tank then 650ml Cirbond 9550 Part B. Finally make-up to 5 litres with De-ionised Water.

TANK 2 - CONDITIONER

Operating Temperature: 40°C
Immersion Time: 1 Minute

Chemical Make-up:

Use as supplied.

TANK 3 - ACID CLEANER

Operating Temperature: 40°C - 50°C
Immersion Time: 2 Minutes

Chemical Make-up:

Mix 4: 1 with deionised water.

PROCESS

- 1) Place inner layout etched board in the 1302 Acid Cleaner Tank 3 at 40°C 50°C for 2 minutes. Remove and spray wash for 1 minute.

- 2) Place in 9028 Conditioner Tank 2 for 35-45°C for 1 minute. Remove and spray Rinse for 1 minute.
- 3) Place in the Cirbond 9550 Tank 1 at 35°C for 1 minute. Remove and spray wash for 1 minute.
- 4) Dry the board with paper towels and then with hair-dryer or place in oven at 60°C – 70°C for 1 minute.

IMMERSION TINNING PROCESS BATH MAKEUP for 5 Litre Tank

TANK 4 - MICRO-ETCH 1305

Operating Temperature: 30-35°C

Immersion Time: 2 Minutes

Chemical Make-up: Makeup with de-ionised water at 100 grams per Litre.

TANK 5 - PRE-DIP 7000

Operating Temperature: 20 - 25°C

Immersion Time: 1 Minute

Chemical Make-up: Add 250ml of pre-dip 7000 to the tank then 125ml 7000 Buffer. Finally make-up to 5 litres with de-ionised water.

TANK 6 - TIN SOLUTION

Operating Temperature: 60°C

Immersion Time: 12 Minutes

Chemical Make-up: Use as supplied.

PROCESS

- 1) With oscillating frame running, place the board in the acid clean Tank 3 for 2 minutes. Remove and rinse for 1 minute.
- 2) Place Board in Micro-etch Tank 4 at 30-35°C for 2 minutes, remove and Spray Wash for 1 minute
- 3) Place in Pre-Dip Tank 5 at 20-25°C for 1 minute. Remove and Spray Wash for 1 minute.
- 4) Place in Tin Tank 6 at 60°C for 12 minutes. Remove Spray Wash with warm water and then cold water and Static De-ionised Rinse. Finally dry with paper towels and warm air.



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