

ECD-125 除胶渣工艺

ECD-125 Desmear Process

一、 Introduction 简介

ECD-125 is an alkaline electrolytic process that can effectively remove the overflowed potting compound from plastic semiconductor components. After treatment with this process, the silver paste can be removed by high-pressure water or ultrasonic cleaning. This plating solution is extremely economical to operate, easy to maintain, and the wastewater treatment is simple.

二、 Advantages and Features

- Alkaline aqueous solution
- Halide-free and non-flammable
- Low erosion of anode by aged plating solution
- Long service life of plating solution
- Low chemical oxygen demand
- Simple wastewater treatment

三、 Bath Configuration

Required Chemicals	Dosage
ECD-125 Desmear Concentrate	200 ml/Lt
DI Water	800 ml/Lt

四、 Bath Preparation

Add deionized water to a clean plating tank.

Add 200 ml/Lt of ECD-125 desmear concentrate and stir evenly

五、Operating Conditions

Parameter	Operating Range	Recommended Value
ECD-125 Desmear Concentrate	180-240 ml/Lt	200 ml/Lt
Temperature	40-60°C	50°C
Cathode Current Density	2-50 ASD	Depending on equipment design

六、Bath Maintenance

The concentration of ECD-125 concentrate should be maintained at 180-240 ml/Lt, and the concentration of ECD-125 concentrate can be determined according to the following analysis method.

七、Analysis Method for ECD-125 Concentrate Concentration

Instrument: 10ml pipette, 250ml conical flask

Reagent: Methyl orange indicator

Titrant: Sulfuric acid: 0.5M

Steps:

1. Pipette 10ml of sample solution into a 250ml conical flask.
2. Add 10ml of deionized water.
3. Add 1 drop of methyl orange indicator.
4. Titrate with 0.5M sulfuric acid until the color of the solution changes
5. from yellow to reddish-orange as the end point.

Calculation: Content of ECD-125 concentrate (ml/L)
= Titrant consumption x 7.03

八、Equipment

Plating tank: Polypropylene with constant temperature device

Anode: Platinum-titanium, which may need to be replaced every 6 months

Heater: Plate heater with PVDF protective layer or #304-316 stainless steel with constant temperature device

Filtration: Filter with 5-10 micron polypropylene fiber filter element, and the filter element needs to be replaced regularly

东莞市硕美电子材料科技有限公司

TEL: 0769-81030039, 22889825 FAX: 0769-81030059, 22889625 热线: 13925851538 裴玉龙先生
地址: 广东省东莞市桥头镇田头角村银岭街63号D栋一楼 E-mail: peter@dgsomei.com 官网: www.dgsomei.com

九、Product Information

Product Number	Product Name	Product Name	Packaging Quantity
10012501	ECD-125 Desmear Concentrate	Remove overflowed potting compound from plastic semiconductor components	20 L/drum

东莞市硕美电子材料科技有限公司

TEL: 0769-81030039, 22889825 FAX: 0769-81030059, 22889625 热线: 13925851538 裴玉龙先生
地址: 广东省东莞市桥头镇田头角村银岭街63号D栋一楼 E-mail: peter@dgsomei.com 官网: www.dgsomei.com