

TIO-93019enL

Application Memo Tin in Plating Liquid for Soldering

Industry Nonferrous metal

Instrument Automatic potentiometric titrator

Measurement method Redox titration

Standards

1. Overview

Tin (Sn^{2+}) in plating liquid for soldering is measured by titration with 0.05mol/L iodine solution after the sample is added with 50% HCl and sodium hydrogen carbonate.

The endpoint is the maximum inflexion on the titration curve.

The tin concentration is calculated from the titration volume of the iodine solution.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Platinum electrode

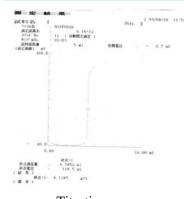
Ceramic reference electrode

3. Reagents

Titrant 0.05 mol/L (0.1 N) iodine (f = 1.008)

Solvent 50% hydrochloric acid, Sodium hydrogen carbonate

4. Example



—Measurement results—			
	Sample	Titer	Tin
	(mL)	(mL)	(g/L)
1	5.0	6.7852	8.119

—Titration curve—

Please feel free to contact us for any further information.

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