

Application Memo Tin in Plating Solution

Industry	Electronics
Instrument	Automatic potentiometric titrator
Measurement method	Redox titration
Standards	

1. Overview

Tin in plating solution is measured as follows: Prepare pure water and 6mol/L hydrochloric acid in a beaker. Further add potassium sodium tartrate to dissolve. Then, immediately after adding sodium hydrogen carbonate and sample, titrate with 0.05mol/L iodine up to the endpoint, which is the maximum inflexion on the titration curve.

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

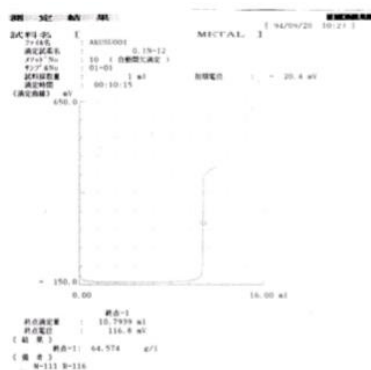
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Platinum electrode Ceramic reference electrode

3. Reagents

Titrant	0.05mol/L (0.1N) iodine (f = 1.008)
Solvent	Pure water, 6mol/L hydrochloric acid Potassium sodium tartrate, Sodium hydrogen carbonate

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Tin (g/L)
1	1.0	10.7939	64.57

Please feel free to contact us for any further information.
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