

Application Memo

Chlorine Ion in Zinc Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

Chlorine ion (Cl⁻) in zinc plating solution is measured by potentiometric titration with 0.1mol/L silver nitrate solution. The test sample is be diluted with pure water as necessary.

The chlorine ion concentration is calculated from the titration volume of silver nitrate up to the endpoint.

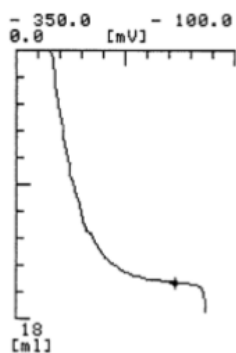
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode

3. Reagents

Titrant	0.1mol/L silver nitrate solution
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—			
	Sample (mL)	Titer (mL)	Chlorine ion (g/L)
1	0.40	15.6054	138.3
2	0.40	15.5244	137.6
3	0.40	15.5238	137.6
Average			137.8
SD			0.4
RSD(%)			0.3

Please feel free to contact us for any further information.
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
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