

Application Memo

Quantitative Determination of Chlorine Ion in Plating Solution

Industry	Nonferrous metal
Instrument	Automatic potentiometric titrator
Measurement method	Oxidation reduction titration
Standards	

1. Overview

Chlorine ion concentration in the diluted sample is measured by titration with the 0.01mol/L silver nitrate solution. The endpoint is the maximum inflexion on the titration curve. The chlorine ion concentration is calculated from the titration volume of silver nitrate.

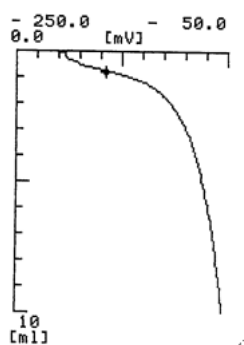
2. Apparatus

Main unit	Potentiometric automatic titrator (preamplifier STD)
Electrode	Silver electrode Mercury sulfate reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.01mol/L silver nitrate solution
Solvent	Water

4. Example



—Titration curve—

—Measurement results—

	Size (mL)	Titrated (mL)	Concentration (g/L)
1	10.0	0.8104	0.02877
2	10.0	0.8047	0.02857
3	10.0	0.8023	0.02848
Average			0.02861
SD			0.00015
RSD(%)			0.52

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