

Application Memo

Chlorine Ion in Copper Sulfate Plating Solution

Industry	Nonferrous metal
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

Chlorine ion of copper sulfate plating solution is measured by potentiometric titration with 0.01mol/L potassium thiosulfate after adding 0.01mol/L silver nitrate and pure water to the test sample and stirring for 10 minutes.

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

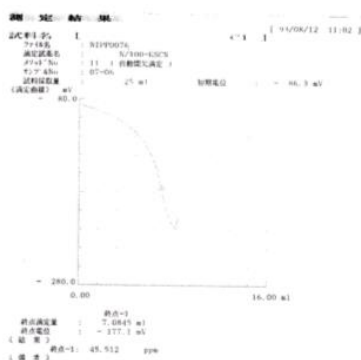
2. Apparatus

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

3. Reagents

Titrant	0.01mol/L potassium thiosulfate (f = 1.009)
Solvent	Pure water, 0.01mol/L silver nitrate

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Chlorine ion (ppm)
1	25.0	7.0845	45.51

Please feel free to contact us for any further information.
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