

Application Memo

Gold in Plating Solution

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

1. Overview

Gold in plating solution is measured by titration with 0.01mol/L sodium thiosulfate after adding pure water and potassium iodide to the sample and leaving for five minutes.
The endpoint is the maximum inflexion on the titration curve.
The concentration of gold is calculated from the titration volume of sodium thiosulfate.

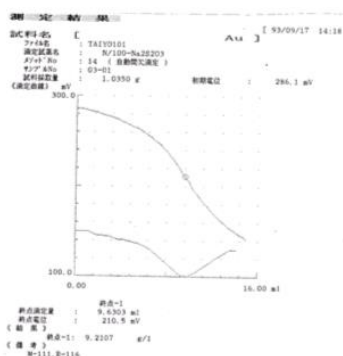
2. Apparatus

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

3. Reagents

Titrant	0.01mol/L Sodium thiosulfate ($f = 1.006$)
Solvent	Pure water, Potassium iodide, Acetic acid (1+1)

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Gold concentration (g/L)
1	1.0350	9.6303	9.2107

Please feel free to contact us for any further information.
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