

Application Memo

Cyanide (CN) in Plating Solution

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

1. Overview

After potassium iodide is added to the sample plating solution which contains cyanide (CN), it is titrated with the 0.1mol/L silver nitrate solution up to the endpoint. The endpoint (EP) is the maximum inflexion on the titration curve.

The concentration of cyanide is calculated from the titration volume of silver nitrate.

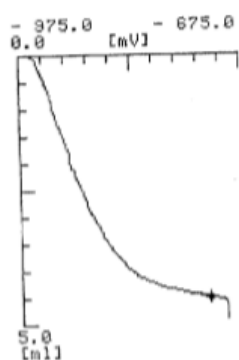
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L silver nitrate solution
Solvent	Pure water
Additive	10% potassium iodide

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Cyanide (g/L)
1	1.0	4.5006	58.51
2	1.0	4.4844	58.30
3	1.0	4.4638	58.03
Average			58.28
SD			0.24
RSD(%)			0.41

Please feel free to contact us for any further information.
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