

## Application Memo

# Determination of Free Cyanide in Copper Plating Solution

Industry	Non-ferrous metal
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

## 1. Overview

After adding 10% potassium iodide to the diluted sample, free cyanide concentration is measured by titration with 0.1mol/L silver nitrate solution. The endpoint is the maximum inflexion on the titration curve. The free cyanide concentration is calculated from the titration volume of the silver nitrate solution.

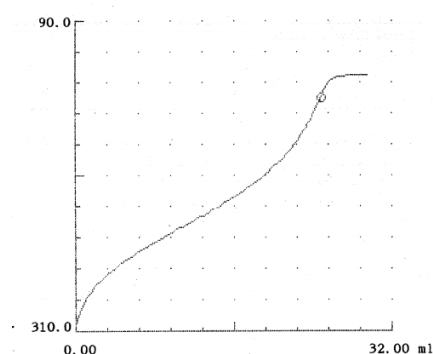
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Silver electrode pH glass electrode

## 3. Reagents

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

## 4. Example



-Titration curve-

-Measurement result-			
	Sample (mL)	Titrated (mL)	Concentration (g/L)
1	10	24.9131	24.42

Please feel free to contact us for any further information.

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