

Application Memo

Determination of CuCN in Copper Plating Solution

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

1. Overview

After adding ammonium persulfate, ammonia water (1+1), and the indicator to the diluted sample, copper cyanide concentration is measured by titration with 0.05mol/L EDTA solution. The endpoint is the maximum inflexion on the titration curve. The copper cyanide concentration is calculated from the titration volume of the EDTA.

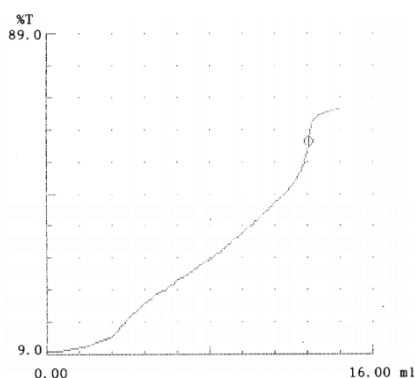
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (530nm)

3. Reagents

Titrant	0.05mol/L EDTA
Solvent	Pure water
Additive	Ammonium persulfate, Ammonia water (1+1)
Indicator	PAN indicator

4. Example



-Titration curve-

-Measurement result-

	Sample size (mL)	Sample (mL)	Concentration (g/L)
1	1	12.9182	58.137

Please feel free to contact us for any further information.
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