

## Application Memo

# Nickel Sulfamate in Plating Solution

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

## 1. Overview

Quantification of nickel sulfamate in plating solution is performed by chelatometry. First, add ammonia water and ammonium persulfate to the diluted sample to dissolve and heat. After cooling, add ammonia water and Murexide indicator and titrate with 0.05mol/L EDTA. The inflexion point by the color change of the indicator on the titration curve is defined as the endpoint. The concentration of nickel sulfamate is calculated from the titration volume of EDTA.

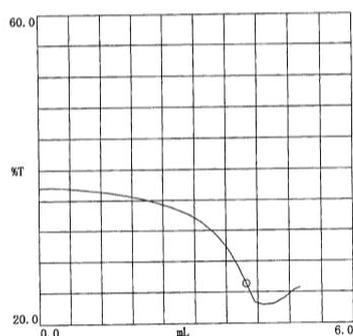
## 2. Apparatus

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

## 3. Reagents

Titrant	0.05mol/L EDTA
Solvent	Pure water
Additive	Ammonia water, Ammonium persulfate
Indicator	Murexide indicator

## 4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (g/L)
1	5.0	3.9859	257.4
2	5.0	3.9538	255.3
Average			256.3

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