

## Application Memo

# Determination of Nickel Sulfate in Nickel Plating Solution

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

## 1. Overview

After adding ammonia water, 1mol/L ammonium chloride and MX indicator to the diluted sample, nickel sulfate concentration is measured by titration with the 0.05mol/L EDTA. The endpoint is the maximum inflexion on the titration curve. The nickel sulfate concentration is calculated from the titration volume of EDTA.

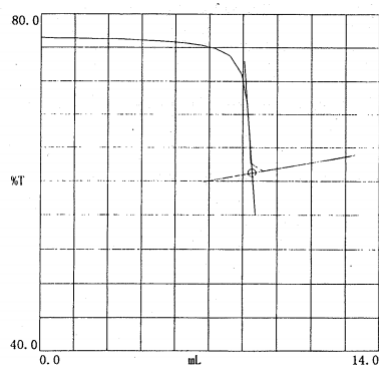
## 2. Apparatus

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

## 3. Reagents

Titrant	0.05mol / L EDTA
Additive	Ammonia water (28%), 1mol/L ammonium chloride
Indicator	Murexide (MX)

## 4. Example



-Titration curve-

### —Measurement results—

	Concentration (g/L)
Average	189.93
SD	0.01
RSD(%)	0.05

Please feel free to contact us for any further information.

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