

Application Memo

Industry	Non-ferrous metal
Instrument	Automatic potentiometric titrator
Measurement method	Chelatometric titration
Standards	SJ/Z 1082

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.

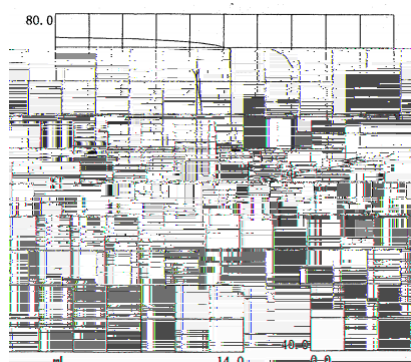
2. Apparatus

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.

Contact Kyoto Electronics Manufacturing Co., Ltd.
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