

Application Memo

Nickel Sulfate in Electrolytic Colorant

Industry	Nonferrous metal
Instrument	Automatic potentiometric titrator
Measurement method	Chelatometric titration
Standards	

1. Overview

The concentration of nickel sulfate in electrolytic colorant is measured by chelatometric titration with 0.1mol/L EDTA after adding pure water and 28% ammonia water to the sample. The inflexion point by the color change of the indicator on the titration curve is defined as the endpoint. The concentration of nickel sulfate is calculated from the titration volume of EDTA.

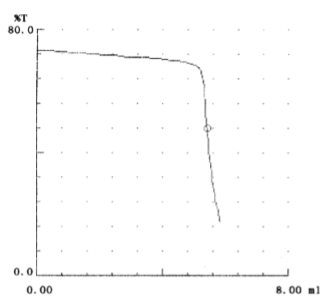
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (630nm)

3. Reagents

Titrant	0.1mol/L EDTA
Additive	Pure water, 28% ammonia water
Indicator	MX

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Nickel sulfate (g/L)
1	10.0	143.44
2	10.0	142.22
3	10.0	141.85
Average		142.50
SD		0.83
RSD(%)		0.58

Please feel free to contact us for any further information.
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