

Application Memo

Determination of Boric Acid in Nickel Plating Solution

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

1. Overview

After adding mannitol to the diluted sample, boric acid concentration is measured by titration with the 0.1mol/L sodium hydroxide solution. The endpoint is the maximum inflexion on the titration curve. The boric acid concentration is calculated from the titration volume of sodium hydroxide.

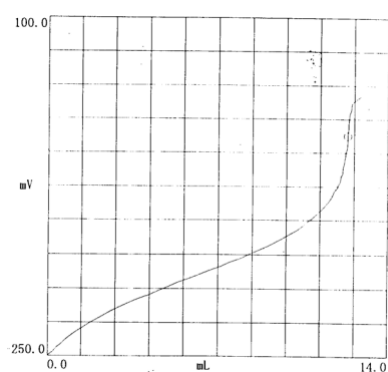
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Ceramic reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.1mol/L sodium hydroxide solution
Solvent	Pure water
Additive	Mannitol

4. Example



-Titration curve-

-Measurement results-

	Concentration (g/L)
Average	38.141
SD	0.069
RSD(%)	0.12

Please feel free to contact us for any further information.

< Contact > Kyoto Electronics Manufacturing Co., Ltd.
Overseas Sales & Marketing Sect.

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