

Application Memo

Determination of Chromic Anhydride in Nickel Plating Solution

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

1. Overview

After adding ammonium fluoride, potassium iodide, and 3mol/L sulfuric acid to the diluted sample, it is titrated with 0.1mol/L sodium thiosulfate. The endpoint is the maximum inflexion on the titration curve. The concentration of chromium oxide is calculated from the titration volume of the sodium thiosulfate solution.

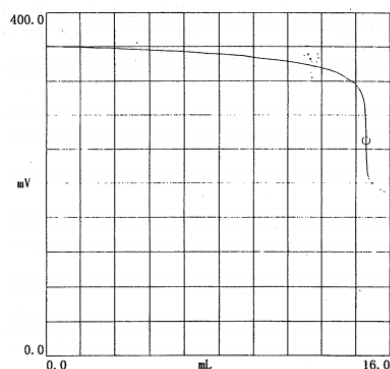
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Platinum electrode Ceramic reference electrode

3. Reagents

Titrant	0.1mol/L sodium thiosulfate solution
Additive:	Ammonium fluoride, Potassium iodide, 3mol/L sulfuric acid (6N)

4. Example



-Titration curve-

-Measurement results-

Average	198.6
SD	0.1
RSD(%)	0.03

Please feel free to contact us for any further information.

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