

Application Memo

Determination of Hydrogen Peroxide in Plating Solution

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

1. Overview

After adding 50% sulfuric acid to the diluted sample, hydrogen peroxide concentration is measured by titration with the 0.1mol/L cerium sulfate solution. The endpoint is the maximum inflexion on the titration curve. The hydrogen peroxide concentration is calculated from the titration volume of cerium(IV) sulfate.

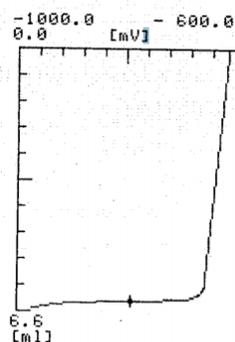
2. Apparatus

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

3. Reagents

Titrant	0.1 mol/L cerium(IV) sulfate solution
Additive	50% sulfuric acid

4. Example



-Titration curve-

-Measurement results-

	Concentration (g/L)
Average	10.732
SD	0.053
RSD(%)	0.49

Please feel free to contact us for any further information.

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