

Application Memo

Hydrogen Peroxide in Plating Solution

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

1. Overview

Hydrogen peroxide in plating solution is measured by titration up to the endpoint with 0.02mol/L potassium permanganate after adding pure water and sulfuric acid (1+1) to the sample.

The endpoint is the maximum inflexion on the titration curve.

The hydrogen peroxide concentration is calculated from titration volume of potassium permanganate.

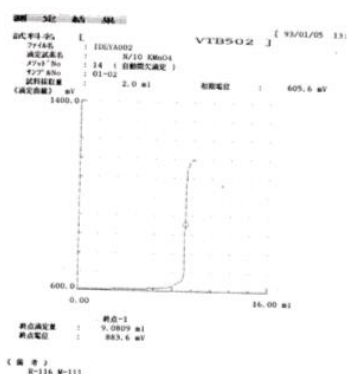
2. Apparatus

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

3. Reagents

Titrant	0.02mol/L(0.1N) potassium permanganate (f = 1.006)
Solvent	Pure water, Sulfuric acid (1+1)

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Hydrogen peroxide (g/L)
1	2.0	9.0809	7.769

Please feel free to contact us for any further information.
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