

## Application Memo

# Sulfamic Acid in Plating Solution

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

## 1. Overview

Sulfamic acid in plating solution is measured by titration with 0.1mol/L sodium nitrite at temperature less than 15°C after adding concentrated hydrochloric acid and water to the sample.

The endpoint is the maximum inflexion on the titration curve.

The sulfamic acid concentration is calculated from the titration volume of sodium nitrite.

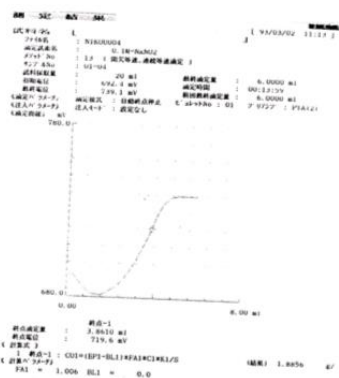
## 2. Apparatus

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

## 3. Reagents

Titrant	0.1mol/L sodium nitrite (f = 1.006)
Solvent	Pure water, Concentrated hydrochloric acid

## 4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Sulfamic acid (g/L)
1	20.0	3.8610	1.886

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