

## Application Memo

# Sulfuric Acid in Copper Sulfate Plating Solution

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

## 1. Overview

Sulfuric acid of copper sulfate plating solution is measured by titration with 1 mol/L sodium hydroxide after the sample is added with water.

The endpoint is the maximum inflexion on the titration curve.

The concentration of sulfuric acid is calculated from the titration volume of sodium hydroxide.

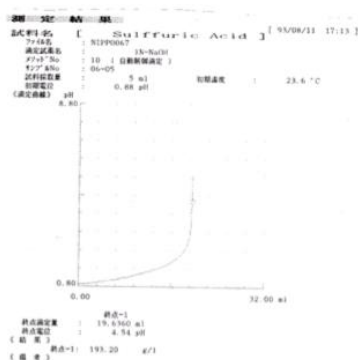
## 2. Apparatus

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

## 3. Reagents

Titrant	1 mol/L sodium hydroxide (f = 1.004)
Solvent	Pure water

## 4. Example



—Measurement results—

	Sample (mL)	Titer (mL)	Sulfuric acid (g/L)
1	5.0	19.6360	193.2

—Titration curve—

Please feel free to contact us for any further information.  
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.  
 Overseas Sales & Marketing Sect.  
<http://www.kyoto-kem.com/en/contact/form.php>