

TIQ-94013enL

Application Memo

Chromium Trioxide of Plating Solution

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Redox titration

Standards

1. Overview

Chromium trioxide (CrO₃) of plating solution is measured by titration with 0.1mol/L sodium thiosulfate after the sample is added with ammonium fluoride, potassium iodide and 3mol/L (6N) sulfuric acid. The endpoint is the maximum inflexion on the titration curve. The concentration of chromium trioxide is calculated from the titration volume of sodium thiosulfate.

2. Apparatus

Main unit Automatic potentiometric titrator (Standard preamplifier STD)

Electrode Platinum electrode

Ceramic reference electrode

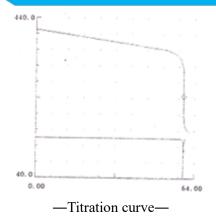
3. Reagents

Titrant 0.1 mol/L sodium thiosulfate (f = 1.002)

Solvent Pure water

Ammonium fluoride, Potassium iodide, 3mol/L (6N) sulfuric acid

4. Example



—Measurement results—			
	Sample	Titer	Chromium
	(mL)	(mL)	trioxide(g/L)
1	2.0	59.763	50.00

Please feel free to contact us for any further information.

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Overseas Sales & Marketing Sect.

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