

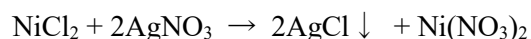
Application Memo

Nickel Chloride in Plating Solution

Industry	Inorganic chemical industry
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	

1. Overview

Determination of nickel chloride in plating solution directly from nickel concentration is impossible due to coexistence of nickel sulfate, but it is possible to calculate from chloride ion concentration. The concentration of chloride ion in test sample can be obtained by potentiometry with the 0.1mol/L silver nitrate solution. Then, the nickel chloride concentration is calculated.



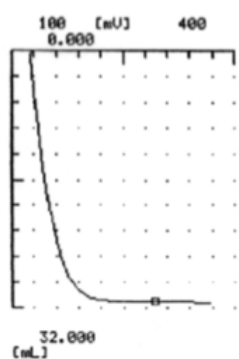
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined silver electrode (Internal solution: 1mol/L potassium nitrate)

3. Reagents

Titrant	0.1mol/L silver nitrate solution
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4. Example



—Measurement results—

	Sample (mL)	Titer (mL)	Concentration (g/L)
1	5.0	31.2425	39.70
2	5.0	31.2216	39.68
3	5.0	31.1905	39.64
Average			39.67
SD			0.31
RSD(%)			0.077

Please feel free to contact us for any further information.
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