

Application Memo

Nickel Chloride in Etchant

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

1. Overview

Nickel chloride in etchant is measured by titration with 0.01mol/L EDTA after adding triethanolamine, ammonia water and Murexide indicator to the sample. The endpoint is determined by inflexion on the titration curve where the color of the indicator changes. The concentration of nickel chloride is calculated from the titration volume of EDTA.

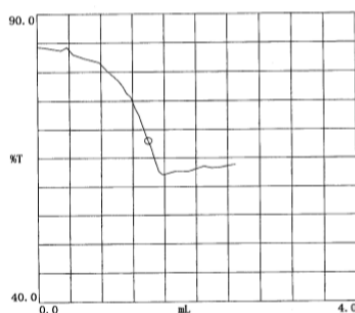
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier PTA)
Electrode	Photometric sensor Interference filter (630 nm)

3. Reagents

Titrant	0.01mol/L EDTA
Solvent	Pure water
Additive	Ammonia water, Triethanolamine
Indicator	Murexide indicator (MX)

4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL)	Nickel chloride (g/L)
1	5.0	1.3972	36.24
2	5.0	1.3938	36.15
3	5.0	1.3967	36.23
Average			36.21
SD			0.05
RSD(%)			0.1

Please feel free to contact us for any further information.
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