

## Application Memo

# Chloride Ion in Adhesive

Industry	Paint, Adhesive
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	JIS K 0050, JIS K 8001

## 1. Overview

The concentration of chlorine ion in adhesive is measured as follows: the sample is first dissolved in solvent to extract chlorine ion, and then, the excessive silver ion is back titrated with the potassium thiocyanate solution until the endpoint is reached on the titration curve. The concentration of chlorine ion is calculated from the difference between the titration volume and the blank level obtained by blank test in advance.

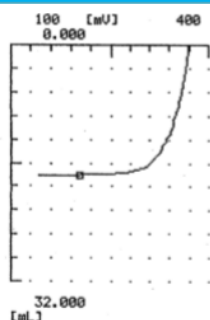
## 2. Apparatus

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

## 3. Reagents

Titrant	0.02mol/L potassium thiocyanate solution
Solvent	2-propanol, Methanol, Toluene
Additive	Nitric acid, 0.02mol/L silver nitrate solution

## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Concentration (%)
1	2.5067	17.6251	0.2149
2	2.5063	17.6350	0.2147
3	2.5067	17.3587	0.2229
Average			0.2175
SD			0.0047
RSD(%)			2.2

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