

## Application Memo

# Acid Number of Electrodeposition Paint

Industry	Paint & Adhesive
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

## 1. Overview

The acid number of electrodeposition paint is measured by titration with 0.1mol/L sodium hydroxide after adding pure water and tetrahydrofuran (THF) to the test sample. The endpoint is the inflection point on the titration curve.

The acid number is calculated from the titration volume of sodium hydroxide titrant.

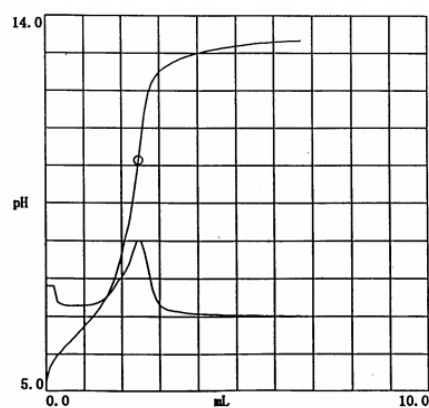
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Double junction reference electrode Temperature compensation electrode

## 3. Reagents

Titrant	0.1mol/L sodium hydroxide
Solvent	Pure water, Tetrahydrofuran (THF)

## 4. Example



-Titration curve-

-Measurement results-			
	Sample (g)	Titer (mL)	Acid number (mg/g)
1	4.9932	2.4475	0.49017
2	4.9921	2.4503	0.49084
3	5.0327	2.4839	0.49355
Average			0.49152
SD			0.00179
RSD(%)			0.364

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