

Application Memo

Amine in Electrodeposition Paint

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

1. Overview

The amine in electrodeposition paint is measured by titration with 0.1mol/L hydrochloric acid after tetrahydrofuran (THF) is added to the test sample. The endpoint is the inflexion point on the titration curve.

The amine value is calculated from the titration volume of the hydrochloric acid titrant.

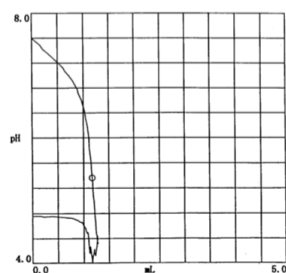
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L hydrochloric acid
Additive	Tetrahydrofuran (THF)

4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Amine (mL/g)
1	5.0036	1.2021	0.24025
2	5.0070	1.2004	0.23974
3	5.0092	1.2246	0.24447
Average			0.24149
SD			0.00260
RSD(%)			1.08

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