

Application Memo

Acid Consumption of Detergent

Industry	Iron and steel
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

The acid consumption of detergent is determined by potentiometric titration with 0.1 mol/L hydrochloric acid up to the endpoint, which is the maximum inflexion on the titration curve. The acid consumption is calculated from the titration volume of hydrochloric acid.

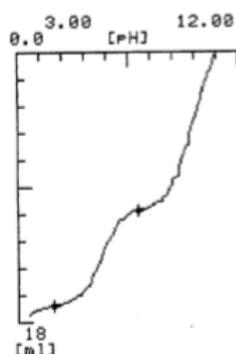
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH Glass electrode Ceramic reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.1 mol/L hydrochloric acid
Solvent	Pure water

4. Example



—Titration curve—

—Measurement results—			
	Sample (mL)	Titer (mL)	Acid consumption (g/L)
1	5.0	16.9611	13.57
2	5.0	16.9493	13.56
3	5.0	16.9670	13.57
Average			13.57
SD			0.008
RSD(%)			0.06

Please feel free to contact us for any further information.
 <Contact> Kyoto Electronics Manufacturing Co., Ltd.
 Overseas Sales & Marketing Sect.
<http://www.kyoto-kem.com/en/contact/form.php>