

Application Memo

Calcium Carbonate in Beads

Industry	Plastics & rubber
Instrument	Automatic potentiometric titrator
Measurement method	Chelatometric titration
Standards	

1. Overview

Calcium carbonate (CaCO_3) in beads is measured as follows. First extract calcium ion from the sample by adding 0.5mol/L hydrochloric acid. Add 8mol/L potassium hydroxide to adjust pH. Titrate the sample with 0.01mol/L EDTA. The endpoint is determined by the color change of the indicator on the titration curve. The calcium carbonate concentration is calculated from the titration volume of EDTA.

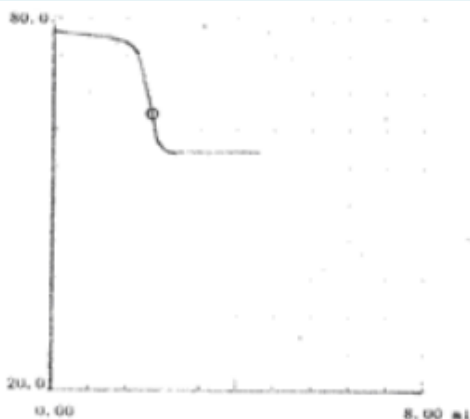
2. Apparatus

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

3. Reagents

Titrant	0.01mol/L EDTA ($f=1.004$)
Solvent	Pure water
Indicator	NN
Additive	0.5mol/L hydrochloric acid, 8mol/L potassium hydroxide

4. Example



-Titration curve-

-Measurement results-			
	Sample (g)	Titer (mL)	Conc. (%)
1	100.04	2.1705	0.4365

Please feel free to contact us for any further information.
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