



Application Memo Boric Acid in Electrolyte

Industry Nonferrous metal

Instrument Automatic potentiometric titrator

Measurement method Acid-base titration Standards JIS K 8863, ISO 6353-3

1. Overview

Boric acid in the electrolyte solution is quantified according to JIS K 8863-2007 Boric acid (Reagent). After mannitol and pure water are added to the sample, it is titrated with 0.1mol/L sodium hydroxide up to the endpoint. The endpoint is the maximum inflexion point on the titration curve. The concentration of boric acid is calculated from the titration volume.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode pH glass electrode

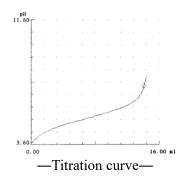
Ceramic reference electrode

3. Reagents

Titrant 0.1 mo1/L sodium hydroxide

Solvent Pure water, Mannitol

4. Example



—Measurement results—		
	Sample	Concentration
	(mL)	(g/L)
1	2.0	43.976
2	2.0	44.658
3	2.0	44.469
Average		44.368
SD		0.352
RSD(%)		0.794

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