BRITISH STANDARD

BS 6075-14: 1981

Methods of

Sampling and test for sodium hydroxide for industrial use —

Part 14: Determination of matter insoluble in water

NOTE It is recommended that this Part be read in conjunction with the information in the *"General introduction"*, published separately as BS 6075-0.

Confirmed January 2011

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Executive Board and comes into effect on 27 February 1981

The following BSI reference relates to the work on this standard:
Committee reference CIC/22

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Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

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1 Scope

This British Standard describes a method of test for the determination of matter insoluble in water for sodium hydroxide for industrial use.

There is no corresponding International Standard for this method.

2 References

The titles of the publications referred to in this standard are listed on the inside back cover.

3 Principle

A solution of the test portion is filtered through a tared filter crucible and the mass of the water-insoluble residue is determined.

4 Reagents

Water complying with the requirements of BS 3978 shall be used throughout.

5 Apparatus

Ordinary laboratory apparatus and the following are required.

5.1 *Oven*, capable of being controlled within the temperature range 100 °C to 105 °C.

5.2 *Crucible*, sintered glass or porous porcelain, of porosity grade no. 4, complying with the requirements of BS 1752. Use a crucible for the determination which has been pre-treated as follows.

Filter 200 ml of approximately 100 g/l sodium hydroxide solution slowly through the crucible. Rinse thoroughly with water to ensure that any loose particles and all the residual sodium hydroxide solution is removed. Dry in the oven (**5.1**), controlled within the temperature range 100 °C to 105 °C, for 1 h and allow to cool in a desiccator.

NOTE The crucible may be used for subsequent determinations without further pretreatment.

6 Procedure

6.1 Test portion. Weigh, to the nearest 0.1 g in a plastics weighing bottle fitted with a cover, 50 g of the sample.

6.2 Determination. Transfer the test portion (**6.1**) to a 400 ml beaker and add about 250 ml of water. When dissolution of the test portion is complete, allow the solution to cool to room temperature and then filter it through the clean dry crucible (**5.2**) previously weighed to the nearest 0.1 mg, transferring any insoluble matter into the crucible with a jet of water. Wash the crucible five times with 5 ml portions of water at room temperature. Dry the crucible and contents for 1 h in the oven (**5.1**), controlled at 100 °C to 105 °C, allow it to cool in a desiccator and weigh it to the nearest 0.1 mg.

7 Expression of results

The matter insoluble in water, expressed as a percentage by mass, is given by the formula:

$$\frac{m_1 \times 100}{m_0}$$

where

m_0 is the mass of the test portion (in g)

m_1 is the mass of the matter insoluble in water (in g).

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Publications referred to

BS 1752, *Laboratory sintered or fritted filters.*
BS 3978, *Water for laboratory use.*

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