

Fertilizers —

Part 4: Chemical analysis —

Section 4.1 Determination of nitrogen —

Subsection 4.1.4 Method for determination of ammoniacal nitrogen content in the presence of other substances which release ammonia when treated with sodium hydroxide (titrimetric method)

[ISO title: Fertilizers — Determination of ammoniacal nitrogen content in the presence of other substances which release ammonia when treated with sodium hydroxide — Titrimetric method]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Chemicals Standards Committee (CIC/-) to Technical Committee CIC/37 upon which the following bodies were represented:

- Association of Public Analysts
- British Agrochemicals Association
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Fertiliser Manufacturers' Association Ltd.
- Institute of Trading Standards Administration
- Ministry of Agriculture, Fisheries and Food

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 August 1984

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National foreword

This British Standard has been prepared under the direction of the Chemicals Standards Committee in order to standardize terminology and labelling, sampling and methods of physical and chemical testing for fertilizers.

For some years the United Kingdom has participated in the standardization of methods of analysing fertilizers through Subcommittee 4, Chemical analysis, of Technical Committee 134, Fertilizers and soil conditioners, of the International Organization for Standardization (ISO). As international agreement is reached on the methods, it is proposed to publish them as Sections of BS 5551.

The standard is to be published in four Parts, each Part being subdivided into Sections and, where appropriate, Subsections. The four Parts are:

- *Part 1: Terminology and labelling;*
- *Part 2: Sampling;*
- *Part 3: Physical properties;*
- *Part 4: Chemical analysis.*

Part 4 is to be divided into five Sections as follows.

- *Section 4.1: Determination of nitrogen;*
- *Section 4.2: Determination of phosphorus;*
- *Section 4.3: Determination of potassium;*
- *Section 4.4: Determination of water;*
- *Section 4.5: Determination of other constituents.*

This Subsection of Part 4 is identical with ISO 7408:1983 “*Fertilizers — Determination of ammoniacal nitrogen content in the presence of other substances which release ammonia when treated with sodium hydroxide — Titrimetric method*”.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-reference. The Technical Committee has reviewed the provisions of ISO 383, to which reference is made in Figure 1, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard is BS 572 “*Interchangeable conical ground glass joints*”.

Additional information.

- 1) This British Standard specifies a method of test only and should not be used as a specification defining limits of purity. Reference to the standard should indicate that the method of test used is in accordance with BS 5551-4.1.4.
- 2) Until the International Standard, referred to in the footnote to 5.1, on the sampling of fertilizers is available, guidance can be found in Part 1 “*Introduction and general principles*”, and Part 4 “*Sampling of solids*”, of BS 5309 “*Methods for sampling chemical products*”.
- 3) With reference to clause 3, water complying with the requirements of BS 3978 “*Water for laboratory use*” is suitable.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, 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.