

Fertilizers —

Part 4: Chemical analysis —

Section 4.3 Determination of potassium —

Subsection 4.3.4 Method for determination of potassium content (titrimetric method)

[ISO title: Fertilizers — Determination of potassium content — 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
- 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

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National foreword

This Subsection of BS 5551 has been prepared under the direction of the Chemicals Standards Committee in order to standardize the determination of potassium in 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 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 5310:1986 “*Fertilizers — Determination of potassium content — 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 as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

The symbol “l” has been used to denote litre (and in its submultiples). In British Standards it is current practice to use the symbol “L”.

Wherever the words “International Standard” or “ISO 5310” appear, referring to this standard, they should be read as “British Standard” or “BS 5551-4.3.4” respectively.

Cross-references

International Standard	Corresponding British Standard
ISO 384:1978	BS 5898:1980 <i>Specification for principles of design and construction of volumetric glassware for laboratory use</i> (Identical)
ISO 5317:1983	BS 5551 <i>Fertilizers</i> Subsection 4.3.1:1983 <i>Preparation of the test solution for determination of water-soluble potassium content</i> (Identical)
ISO 5725:1986	BS 5497 <i>Precision of test methods</i> Part 1:1987 <i>Guide for the determination of repeatability and reproducibility for a standard test method by inter-laboratory tests</i> (Identical)
ISO 7407:1983	BS 5551 <i>Fertilizers</i> Subsection 4.3.2:1983 <i>Preparation of the test solution for determination of acid-soluble potassium content</i> (Identical)