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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32741-2025

Replacing GB/T 32741-2016

**Fertilizers, soil conditioners and beneficial substances -
Classification**

肥料、土壤调理剂和有益物质 分类

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 32741-2016 "Classification of Fertilizers and Soil Conditioners". Compared with GB/T 32741-2016, except for the structure...

Aside from adjustments and editorial changes, the main technical changes are as follows.

---The following terms have been removed. organic nitrogen fertilizer (see 4.1.2.1 in the 2016 edition), synthetic organic nitrogen fertilizer (see 4.1.2.2 in the 2016 edition), and nitrogen-phosphorus organic fertilizer.

Fertilizers (see 4.1.2.3 in the 2016 edition), nitrogen and potassium organic fertilizers (see 4.1.2.4 in the 2016 edition), nitrogen, phosphorus, and potassium organic fertilizers (see...), the classification of matrix-based compound fertilizers and adhesive-based slow-release fertilizers (see section 4.1.2.5 of the 2016 edition) and 4.2.3.2.4 of the 2016 edition;

---Changes have been made to organic-inorganic fertilizers (see 4.1.3, 2016 version), granular fertilizers, or pellet fertilizers (see 4.2.2.1.2, 2016 version).

(See 4.2.2.1.2 of the 2016 edition), other calcium, magnesium, and sulfur soil conditioners (see 5.1.1.3, 5.1.1.2 of the 2016 edition), and other inorganic soil conditioners.

Conditioners (see 5.1.3, 5.1.2 of the 2016 edition), organic soil conditioners with added fertilizers and/or beneficial substances (see 5.2.3, the classification requirements of section 5.3 (2016 edition));

---Added fertilizers with added beneficial substances (see 4.1.5), blended fertilizers (BB fertilizer) (see 4.1.6), value-added fertilizers (see 4.2.3.4), and added...

Calcareous substances with added fertilizers and/or beneficial substances (see 5.1.1.2), and inorganic soil conditioners with added fertilizers and/or beneficial substances.

Classification of organic and inorganic soil conditioners (see 5.1.2), beneficial substances (see Chapter 6).

This document is modified to adopt ISO 7851:2022 "Fertilizers, soil conditioners and beneficial substances - Classification".

This document has undergone significant structural adjustments compared to ISO 7851:2022. A table comparing the structural numbering changes between the two documents is provided.

See Appendix A.

This document differs significantly from ISO 7851:2022 in several technical aspects. The relevant clauses are indicated in vertical single-line margins.

The lines (|) are marked. A summary of these technical differences and their reasons can be found in Appendix B.

The following editorial changes have been made to this document.

---Removed sections 4.1.1.1, 4.1.1.3, 4.1.1.4, 4.1.2.1, 4.2.2.2.1, 4.2.3.3, 5.1.2.3, 5.2.1, and 5.3 from ISO 7851:2022.

And the notes in Figure C.1.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Fertilizers and Soil Conditioners (SAC/TC105).

1 Scope

This document provides a classification of commercial fertilizers, soil conditioners, and beneficial substances.

This document applies to the production, processing, distribution, use, research and development, and testing of commercial fertilizers, soil conditioners, and beneficial substances.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 6274 Fertilizers, Soil Conditioners and Beneficial Substances - Terminology (GB/T 6274-2025, ISO 8157:2022, MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 6274 apply to this document.

4 Fertilizer Classification

4.1

Classification by Composition [Main classification principles (see Appendix C for classification diagram)]

4.1.1.1.1 Nitrogen Fertilizer

Fertilizers that specify nitrogen content (total nitrogen of at least 10.0%), may contain other elements, but do not specify phosphorus and/or potassium content.

4.1.1.1.2 Phosphate Fertilizer

Fertilizers that specify phosphorus content (available phosphorus pentoxide of at least 12.0%), may contain other elements, but do not specify nitrogen and/or potassium content.

4.1.1.1.3 Potassium Fertilizer

Fertilizers that specify potassium content (at least 20.0% for water-soluble potassium oxide) and may contain other elements, but do not specify nitrogen and/or phosphorus content.

4.1.1.2.1 Nitrogen-Phosphorus Binary Fertilizers

Fertilizers that specify nitrogen and phosphorus content, may contain other elements, but do not specify potassium content.