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

GB/T 46930-2025

**Technical specification for the batching accuracy control of
feed**

饲料配料精度控制技术规范

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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. 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 and is under the jurisdiction of the National Technical Committee on Standardization of Feed Industry (SAC/TC76). This document was drafted by: Henan University of Technology, Shanghai Zhengcheng Electromechanical Manufacturing Co., Ltd., Chia Tai Kangdi Agricultural and Animal Husbandry Group Co., Ltd., and Bühler. (Changzhou) Machinery Co., Ltd., Henan Longchang Machinery Manufacturing Co., Ltd. The main drafters of this document are: Wang Weiguo, Yang Gang, Guo You, Ma Hengqing, Wang Fangli, Zhang Gentai, Liu Zhen, Lu Zhaoguo, Tan Fei, and Li Haotian. Su Wan'en. Feed formulation precision control technical specifications

1 Scope

GB/T 46930-2025 is the Chinese national standard covering weighing the ingredients of a feed correctly - the accuracy required of each scale by the size of the addition, the calibration and its frequency, the sequence of addition and the verification that the mix that left the plant is the formula that was ordered. A micro-ingredient weighed wrong is either a wasted additive or a poisoned herd. First edition. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the limits for ingredient accuracy in feed product production, the design requirements for ingredient mixing processes and equipment, and the procedures for controlling ingredient accuracy. The requirements describe the verification method. This document applies to the control of ingredient proportioning accuracy in the feed production

process. This document is not applicable to the conformity assessment of feed product quality.

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 10647 Terminology for the Feed Industry

GB/T 18695 Terminology for Feed Processing Equipment

GB/T 27738-2011 Gravity-based automatic filling weighing instruments

3 Terms and Definitions

The terms and definitions defined in GB/T 10647, GB/T 18695, and GB/T 27738-2011, as well as the following terms and definitions, apply to this document.

3.1 Batching accuracy A single-scale batching and weighing system that has been verified, calibrated, or validated and is within its validity period is used for weighing a certain component or batch of feed. The relative error (d) between the actual weighed values (indicated values) and the set weighed values of all components. The calculation formula is as follows: $d = (m_r - m) / m \times 100\%$ In the formula. m

--- The set weighing value of the ingredients; m_r

---The actual weighing value of the ingredients.

3.2 The batching accuracy is measured by the batching and weighing system during batching operations in accordance with the automatic control program under normal production conditions.

3.3 Batching accuracy limit In both automatic and manual batching operation, the batching and weighing system operates within its rated minimum and maximum weighing capacity range. Within the specified range, the maximum permissible relative error for weighing a single component or the entire batch of products.

3.4 Minimum capacity minimum capacity The batching and weighing system can automatically or manually weigh the minimum separation load. [Source: GB/T 27738-2011, 3.3.7, with modifications]