

ICS 65.060

CCS B 93



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

GB/T 32536-2016

Test method for feed mixers

饲料混合机试验方法

Issued on: February 24, 2016

Implemented on: September 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the national feed machinery Standardization Technical Committee (SAC/TC384) centralized. This standard was drafted. Southern Yangtze University, Jiangsu Shepherd Group Co., Chinese God Group Co., Ltd., Wuxi Taihu Grain Machinery Co., Ltd. The main drafters of this standard. Xiezheng Jun, Xu Xueming, Fan Wenhai, Wang Wenli, Yan Zhengwei, Zhao Jianwei. Mixer Test Method

1 Scope

China's national test method for feed mixers - the machine at the centre of every feed mill, whose only job is to make every kilogram of the finished feed the same as every other, and whose failure to do so is invisible until the animals show it. The standard specifies the terms and definitions, the test conditions, the test items and test methods, and the test report for feed mixers. It applies to the performance testing, the checking of the structural parameters and the testing of the materials of batch and continuous solid feed mixers; it does not apply to the drum, V-type, planetary and auger mixers used for diluting the trace components of additive premixes. The measurement the whole document turns on is the mixing uniformity, expressed as the coefficient of variation of a tracer between samples drawn from the batch, determined in accordance with GB/T 5918 for the feed itself and GB/T 10649 for the trace elements of a premix. Around it the standard sets the conditions that have to hold for such a figure to mean anything: the composition, the moisture and the particle size distribution of the test material, determined to GB/T 6435, GB/T 5917.1 and, where maize is used, GB/T 17890 and GB/T 10362; the fill level and the mixing time; and how and from where the samples are drawn. The other test items are the ones a purchaser needs: the productivity, the power consumption and the specific energy, the residue left in the machine between batches, which is what causes carry-over from a medicated feed to the next one, the discharge time, and the noise, measured by the enveloping surface method of GB/T 3768. Issued on 24 February 2016 and in force since 1 September 2016, it is held by SAC/TC 384.

This standard specifies the terms and definitions Mixer test, test conditions, test items and test methods, test reports. This standard applies to performance test batch and continuous feed solid mixer, structure parameter detection and test materials testing. This standard does not apply to the additive premix diluted trace components for drum-type, V-type planetary auger mixers.

2 Normative references

The following documents for the application of this document is essential. For cited documents with dates, only the dated edition applies to this document. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method

GB/T 5009.1-2003 food hygiene inspection method Physical and chemical section General

GB/T 5498 Inspection of grain and bulk density

GB/T 5917.1 Determination of Particle Size of Feed two sieve method Determination of

GB/T 5918 feed product mix uniformity Determination of GB/T 6435 feed water

GB/T 10362 Inspection of grain and corn moisture determination

GB/T 10649 Determination of trace elements feed mixing uniformity of pre-mixed GB/T 17890 feed corn

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 The maximum working volume Batch mixer to ensure maximum volume reaches a predetermined degree of homogeneity of the batch loaded materials.

3.2 Minimum working volume Batch mixer to ensure the minimum volume reaches a predetermined degree of homogeneity of the batch loaded materials.

3.3 Effective volume Batch mixer rated load of material volume.

3.4 Load factor Batch mixer when mixing materials, loaded with material volume ratio of effective volume percentage.

3.5 Rated batch mixing quality Batch mixer at mixing index to meet the requirements of the premise, the total mass of the manufacturer of each batch of mixed materials.