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

GB/T 13566.1-2008

Replacing GB/T 13566-1992

**Fertilizers -- Determination of bulk density -- Part 1: Loose
density**

肥料 堆密度的测定 第1部分：疏松堆密度

(English Translation)

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Foreword

GB/T 13566 "fertilizer bulk density determination" is divided into two parts.

--- Part 1. Loose bulk density;

--- Part 2. tap bulk density.

This section is GB/T Part of 113,566.

This part identical with ISO 3944:1992 "--- fertilizer bulk density (loose) determination." in order to meet China's national conditions, when this part of the adoption of international standards of editorial changes. The main difference between this part and the international standard is Normative documents guiding pragmatic language instead of the corresponding national standards guiding international standards.

This part of the terms and provisions correspond to international standards.

For ease of use, this section also made the following editorial changes.

--- "This International Standard" be replaced by "GB/T 13566 this part" or "this part";

--- With a decimal point versus decimal comma ",", ".", ";";

--- Deleted international standards foreword.

This Part replaces GB/T 13566-1992 "fertilizer bulk density determination" in part, GB/T 13566-1992 of fertilizer Sign tight bulk density materials continue to be valid.

This section compared with the GB/T 13566-1992 main changes are as follows.

--- Standard name was changed to "Determination of bulk density of fertilizer - Part 1. Loose bulk density";

--- Remove the determination of bulk density of the tight shot of fertilizer;

- Increased introduction;
- Increased in Chapter 2, normative references;
- Increased in Chapter 6 of the sample preparation;
- Increased Chapter 9 test report.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee and soil conditioners Fertilizers (SAC/TC105) centralized.

This section drafted by. National Fertilizer Quality Supervision and Inspection Center (Shanghai), Hubei Yihua Chemical Industry Co., Ltd.

Introduction

Loose bulk density of fertilizer and tapped bulk density is to provide relevant information on the fertilizer packaging material, warehouse, repository size requirements. through Often tapped bulk density loose bulk density ratio of 10%, sometimes more than this value. Both depend on the actual density, particle shape and fertilizer size.

Loose bulk density fertilizer in practice can be used to calculate the maximum volume of a given mass of fertilizer, manure given share of real quality Interpersonal volume generally is calculated within a loose pile density, and tap bulk density range.

GB/T 13566.1-2008/ISO 3944:1992 Determination of bulk density of fertilizer Part 1. Loose bulk density

1 Scope

GB/T 13566 provisions of this part of the determination of solid fertilizer loose bulk density.

This section applies only in dry fertilizer, such as manure in the transport, storage process is hygroscopic, it must be measured before at a constant low humidity Environmental test chamber and dried.

This section does not apply to powdery fertilizer, it does not apply to a particle size greater than 5mm particles containing a large amount of fertilizer.

2 Normative references

The following documents contain provisions which, through reference GB/T 13566 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest

versions apply to this section.

ISO 7742. 1988 Solid fertilizers --- reduction of sub-samples ISO 8358:1991 Solid fertilizers
--- chemical analysis and physical analysis sample preparation

3 Terms and Definitions

The following terms and definitions apply to this section.

After under clearly defined conditions, solid fertilizers poured through the free flow of container, the unit volume of the fertilizer quality. Fertilizer loose bulk density Grams per cubic centimeter (g/cm³) represents.

Principle 4

By specifying the sample was poured into the funnel specified measuring cylinder of known volume, and then weighing the sample measuring cylinder.

5 Instruments

5.1

Balance. Sensitivity 1g;

5.2

Determination of loose bulk density means. the approximate dimensions shown in Figure 1, from the following components.

5.2.1

movable measuring tube. no mouth, its capacity should be measured in advance, accurate to 1cm³;

NOTE: Determination of loose bulk density of the components of the apparatus to be in contact with the fertilizer, it is appropriate corrosion-resistant material (such as glass, plastic, etc.) is made.

5.2.2

bracket funnel.

5.3

blade, approximate dimensions of 120mm x 20mm, or other suitable means.

6 Prepare, samples

Sample preparation according to ISO 7742 and ISO 8358 methods to ensure adequate sample replicates.

Step 7

Do two parallel determination of sample.

GB/T 13566.1-2008/ISO 3944:1992