

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

SN/T 0736.5-2010

Replacing SN/T 0736.5-1999

**Test method of import and export fertilizers. Part 5:
Determination of nitrogen content**

进出口化肥检验方法 第5部分：氮含量的测定

(English Translation)

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Foreword

SN/T 0736 "Importers fertilizer test methods" is divided into 12 sections.

- Part 1. sampling and sample preparation;
- Part 2. Determination of moisture;
- Part 3. Determination of particle size;
- Part 4. Flame atomic absorption spectrometric method for the determination of sodium content;
- Part 5. Determination of nitrogen content;
- Part 6. Determination of phosphorus;
- Part 7. Determination of potassium;
- Part 8. Determination of shrinkage diurea content;
- Part 9. Determination of chlorine content;
- Part 10. Determination of the free acid;
- Part 11. automatic analyzer nitrogen content;
- Part 12. Determination of Arsenic, chromium, cadmium, mercury, lead by Inductively Coupled Plasma Mass Spectrometry.

This section SN/T Section 50736 of.

This section is amended to SN/T 0736.5-1999 "Determination of the import and export of fertilizer nitrogen content test method" carried out.

This section compared with the SN/T 0736.5-1999 The main changes are as follows.

- According to GB/T 1.1-2009 "Standardization Guide Part 1 standard structure and drafting" and GB/T 20001.4-2001 "Rules for drafting standards - Part 4. Chemical analysis

methods," the original standard configuration has been modified.

--- Test method distillation, formaldehyde method choreography.

--- Add nitrate-containing sample test method, amide nitrogen, melamine nitrogen and ammonia nitrogen in nitrogen content.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section is responsible for drafting unit. People's Republic of China Liaoning Province Exit Inspection and Quarantine.

1 Scope

SN/T 0736 provisions of this part of the determination of the nitrogen content of the fertilizer import and export.

This section applies to the import and export of nitrogenous fertilizer testing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Preparation of GB/T 601 chemical reagent standard titration solution Laboratory use specifications and test methods GB/T 6682 Analysis SN/T 0736.1 fertilizer import and export inspection methods of sampling and sample preparation

3 Preparation, samples

Press SN/T 0736.1 performed.

Test Method 4

4.1.1 Application

Suitable for containing ammonia nitrogen, nitrate nitrogen, amide nitrogen, and the determination of cyanamide nitrogen fertilizer nitrogen content in the composite.

4.1.2 Principle

Sample by nitration or reduction of various forms of nitrogen into ammonia nitrogen, was added excess lye, ammonium salt decomposition, by distillation, the distilled Ammonia with an excess of standard solution of sulfuric acid to absorb and then back titration with standard sodium hydroxide solution.

4.1.3 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade water to comply with GB/T 6682 requirements for laboratory use third grade water.

4.1.3.1

sulfate. a density of 1.84g/mL.

4.1.3.2

hydrochloride. a density of 1.19g/mL.

4.1.3.3

Chromium powder. fineness of less than 250 μ m.

4.1.3.4

De Wada alloy (Cu50. Al45. Zn5). ground to about 20 mesh (the fineness of less than 850 μ m).

4.1.3.5

potassium sulfate.

4.1.3.6

copper sulfate pentahydrate.

4.1.3.7

Mixed Catalyst. 50g to 1000g of potassium sulfate and copper sulfate pentahydrate thoroughly mixed and ground carefully.