

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

SN/T 0736.6-2010

Replacing SN/T 0736.6-1999

**Chemical analysis of fertilizers for import and export. Part 6:
Determination of phosphorus**

进出口化肥检验方法 第6部分：磷的测定

(English Translation)

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Foreword

This section drafted in accordance with GB/T 1.1-2009 given rules.

SN/T 0736 "Importers fertilizer test methods" series of standards consists of 12 parts.

--- 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 60736 of.

0736.6-1999 "Import and Export Inspection Method Determination of phosphorus fertilizer," Since the implementation of this section instead of the SN/T .

This section compared with the SN/T 0736.6-1999 The main changes are as follows.

--- According to GB/T 20001.4-2001 "Rules for drafting standards - Part 4. Chemical analysis methods," the original structure of the standard modify.

--- Original standard gravimetric method as the first part of this law, and as the Arbitration Law.

--- Reference Russian State Standard "GOCT20851.2. 1975" in Molybdovanadophosphoric spectrophotometry as a second method. This part of Russia Ross national standards. The main technical differences "GOCT20851.2 1975" as follows. phosphorus pentoxide (P₂O₅) series of standard working Curve drawing, Russian national standards adopted 10 points, SN/T 0736 This section uses six points.

This part by the National Certification and Accreditation Administration of People's Republic of China and focal points.

1 Scope

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

This section applies to the determination of the import and export of phosphorus fertilizer.

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, undated references, the latest edition (including any amendments) applies to this document.

GB/T 603 chemical reagent in test methods - Preparations with 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 The first method gravimetric method (Arbitration Act)

3.1 Reagents

Unless otherwise specified, use only analytical reagent. Used in the test preparation and products, did not indicate when the other requirements, according GB/T 603 provisions prepared.

3.1.1

Water, GB/T 6682, three.

3.1.2

citric acid.

3.1.3

ammonium citrate.

3.1.4

hydrochloride. $\rho = 1.19\text{g/mL}$.

3.1.5

Nitrate. $\rho = 1.42\text{g/mL}$.

3.1.6

perchloric acid. $\rho = 1.67\text{g/mL}$.

3.1.7

acetone.

3.1.8

hydrochloric acid solution (15).

3.1.9

nitric acid solution (11).

3.1.10

aqua regia. hydrochloric acid - nitric acid (31).

3.1.11

citric acid solution (20g/L). Weigh 20g of citric acid, dissolved in an appropriate amount of water and dilute to 1L, and mix.

3.1.12

neutral ammonium citrate solution. dissolving 450g ammonium citrate in an appropriate amount of water, ammonia water was added dropwise carefully and accurately adjusted to pH 7.0, and then After diluted with water, so that at 20 °C, the density of the solution is 1.09g/mL.

3.1.13

Quimociac solution.

Solution A. 70g of sodium molybdate was dissolved in 150mL of water;