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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3793-2014

Determination of total phosphorus, potassium content in compound fertilizers - X-ray fluorescence spectrometry

复混肥料中总磷、钾含量测定 X射线荧光光谱法

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China Manzhouli Exit Inspection and Quarantine.

1 Scope

This standard specifies the determination of nitrogen, phosphorus and potassium compound fertilizer compound total phosphorus (P2O5) using wavelength dispersive X-ray fluorescence spectrometer, potassium (K2O) the method of content.

This standard applies to the determination of nitrogen, phosphorus and potassium compound fertilizer compound total phosphorus (P2O5), potassium (K2O) content. Determination of the range in Table 1.

Table 1 measuring range phosphorus, potassium content

Project measurement range (mass fraction) /% TP 3.07 ~ 27.63 Potassium 3.09 ~ 28.88

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.

JJG810 wavelength dispersive X-ray fluorescence spectrometer Determination of SN/T 0736.2 Test Method for Water and export of fertilizers

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3 Method Summary

The samples were prepared as borate glass melt samples. Measuring samples of phosphorus, potassium and the influence of elements characteristic X-ray fluorescence spectrum Light intensity, according to the calibration curve obtained phosphorus, potassium content.

4 Reagents

Unless otherwise indicated in the analysis using only recognized as analytical reagents.

4.1
lithium tetraborate and lithium metaborate mixed flux (67.33), X-ray fluorescence dedicated reagent. Before use at 650 °C burning 4h, then in the drier cooled storage.

4.2
bromide.

DAP 4.3, high-purity reagents or standard material. At 50 °C, vacuum degree of 6.4 x 104Pa ~ 7.1 x 104Pa vacuum oven dry Dry 2h, then cooled in a desiccator.

4.4
potassium, high purity reagents or standard material. Dried at 130 °C 2h, then cooled in a desiccator.

4.5
potassium chloride, high purity reagents or standard material. Burning 6h at 500 °C, then cooled in a desiccator.

4.6
saturated solution of lithium bromide. The lithium bromide (4.2) dissolved in water to saturation, and filtered.

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