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ICS 65.080
CCS G21

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3808-2014

Determination of total phosphorus content in diammonium phosphate - X-ray fluorescence spectrometry

磷酸二铵中总磷含量测定 X射线荧光光谱法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

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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 method for the determination of total phosphorus diammonium phosphate (P2O5) content of wavelength dispersive X-ray fluorescence spectrometer.

This standard applies to the determination of total phosphorus in DAP (P2O5) content. Measurement range (mass fraction) 36.85% - 49.13%.

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.

Determination of GB 10209.3 monoammonium phosphate, diammonium phosphate in water JJG810 wavelength dispersive X-ray fluorescence spectrometer

3 Method Summary

The samples were prepared as borate glass melt samples. Samples measuring element and the effect of phosphorus element characteristic spectral lines of X-ray fluorescence Strength, according to the calibration curve obtained total phosphorus (P2O5) content.

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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
anhydrous calcium sulfate, at 400 °C burning 2h, then cooled in a desiccator.

4.5
over anhydrous magnesium sulfate, drying at 250 °C 2h, then cooled in a desiccator.

4.6
silica, calcined at 1000 °C 1h, then cooled in a desiccator.

4.7
alumina, calcined at 1000 °C 1h, then cooled in a desiccator.

4.8
ferric oxide at 1000 °C burning 1h, then cooled in a desiccator.

4.9
saturated solution of lithium bromide. The lithium bromide (4.2) dissolved in water to saturation, and filtered.

4.10
mixture A. Take 1.2g anhydrous calcium sulfate (4.4), 1.5g of anhydrous magnesium sulfate (4.5), 0.5g silica (4.6), 0.5g trioxide Aluminum (4.7), 0.5g of ferric oxide (4.8), mixed grinding, stored in a desiccator.

5 Instruments

5.1
wavelength dispersive X-ray fluorescence spectrometer, in line with the provisions of JJG810.

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