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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3363-2012

Determination of impurity elements in pig lead. Inductively coupled plasma atomic emission spectrometry

铅锭中杂质元素含量的测定 电感耦合等离子体原子发射光谱法

(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 Shandong CIQ.

1 Scope

This standard specifies the inductively coupled plasma atomic lead ingot silver, copper, bismuth, arsenic, antimony, tin, zinc, iron, cadmium, nickel element content of the emitted light Spectroscopy methods.

This standard applies to the determination of lead ingots of silver, copper, bismuth, arsenic, antimony, tin, zinc, iron, cadmium, nickel element content. Determination of the range in Table 1.

Table 1 Determination of elements content range

element

Content range

% (Mass fraction)

Ag 0.0008 ~ 1.00

Cu 0.001 ~ 1.00

Bi 0.004 ~ 1.00

As 0.0005 ~ 1.00

Sb 0.0008 ~ 1.00

Sn 0.0005 ~ 1.00

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Zn 0.0004 ~ 1.00

Fe 0.0005 ~ 1.00

Cd 0.0004 ~ 1.00

Ni 0.0004 ~ 1.00

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.

GB/T 6682 analytical laboratory use specifications and test methods GB/T 12806 Laboratory glassware single marking flask GB/T 12808 Laboratory glassware single marking pipette JJG015 inductively coupled plasma atomic emission spectrometer test procedures

3 Method summary

After the specimen is dissolved in nitric acid and diluted to determine the volume of the sample solution is injected into the plasma flame, and this light source, plasma Body element corresponding wavelength spectrometer, measure the light intensity to determine its content from the standard curve.

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