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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 2765.2-2013

Determination of arsenic, chromium, cadimium, lead and mercury in iron ores. Inductively coupled plasma mass spectrometry(ICP-MS)

铁矿石中砷、铬、镉、铅、汞的测定 电感耦合等离子体-质谱法

(English Translation)

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Foreword

This section SN/T Section 22765 of.

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

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

1 Scope

This section SN/T 2765 specifies the inductively coupled plasma iron ore of arsenic, chromium, cadmium, lead and mercury - mass spectrometry.

This section applies to arsenic, chromium, cadmium, lead and mercury in iron ore measured, the measurement range of each element in Table 1.

Table 1 measurement range of each element

Element Measuring range/(μg/kg) element Measuring range/(μg/kg) Arsenic 2.53 0.40 3200 to 1900 lead Chromium 1.83 6.27 ~ 190 ~ 2500 Mercury Cadmium 0.15 ~ 0.55

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.

Laboratory use specifications and test methods GB/T 6682-2008 Analysis GB/T 10322.1 iron ore sampling and sample preparation methods

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3 Method summary

Samples using high temperature pressure microwave digestion process was diluted to volume with water, using the internal standard line, directly inductively coupled plasma Body - mass spectrometry (ICP-MS) was measured.

4.1 Pairs of reagents and materials requirements

Reagents used in this standard is pure class system or steamed acid-treated chemical reagents, test water should be consistent with GB/T 6682-2008 A water specified.

4.1.1
hydrochloric acid (rho = 1.19g/mL).

4.1.2
hydrofluoric acid (rho = 1.13g/mL).

4.1.3
nitric acid (rho = 1.4g/mL).

4.1.4
purity argon gas (purity greater than 99.999%).

4.2 Preparation of the solution

4.2.1 2% nitric acid (298) solution. take the right amount of nitric acid (4.1.3) and ultra-pure water volume ratio of 2.98 were mixed.

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