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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3796-2014

Determination of acid soluble impurity elements (lead, cadmium, chromium, arsenic, mercury, copper, zinc, manganese, nickel, cobalt) in talc powder. Inductively coupled plasma mass spectrometry method (ICP-MS)

滑石粉中酸溶杂质元素（铅、镉、铬、砷、汞、铜、锌、锰、镍、钴）的测定 电感耦合等离子体质谱法

(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 Liaoning Province Exit Inspection and Quarantine.

1 Scope

This standard specifies the talc, acid-soluble impurity elements (lead, cadmium, chromium, arsenic, mercury, copper, zinc, manganese, nickel, cobalt) inductively coupled plasma mass Spectroscopy (ICP-MS) spectrometry.

This standard applies to the determination of acid soluble impurity elements (lead, cadmium, chromium, arsenic, mercury, copper, zinc, manganese, nickel, cobalt) in talc. See measurement range

Table 1.

Table 1 unit standard measurement range of each element in milligrams per kilogram

Element measurement range measurement range of elements Cr 0.71 ~ 1.59 Mn 13.99 ~ 89.03 Co 0.013 ~ 3.29 Ni 2.12 ~ 7.53 Cu 1.33 ~ 3.01 Zn 10.1 ~ 77.3 as 0.10 ~ 0.39 Cd 0.051 ~ 0.38 Hg 0.006 ~ 0.018 Pb 1.38 ~ 4.20

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.

Preparation of standard solution of GB/T 602 Determination of impurities in chemical

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reagents GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat of the basic methods of reproduction Laboratory use specifications and test methods GB/T 6682 Analysis SN/T 0830 export bags talc sampling and sample preparation method

3 Method summary

Sample using nitric acid digestion, the test solution was diluted with water introduced directly into the inductively coupled plasma mass spectrometer to measure the elements Isotope mass spectrometry signal intensity, join online germanium, indium and bismuth as internal standard element for correcting instrument sensitivity drift and matrix effects.

4 Reagents

Unless otherwise specified, reagents were pure class distinctions in the analysis used in the test water should use a water GB/T 6682 or as specified Conductivity of greater than or equal 18.2Mohm/cm ultrapure water.

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