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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15343-2020

Replacing GB/T 15343-2012

Methods for chemical analysis of talc

滑石化学分析方法

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Foreword

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

standard replaces GB/T 15343-2012 "Talc Chemical Analysis Method". This standard is compared with GB/T 15343-2012, except for editing The main technical changes outside the sexual modification are as follows:

--- Modify "crush the samples sent to the laboratory to all through the 1 μ m sieve" to "crush the samples sent to the laboratory to all Pass 1mm sieve" (see 4.2,

4.2 of the.2012 edition);

--- Modify "Constant temperature water bath" to "Constant temperature water bath" (see Chapter 5, Chapter 5 of the.2012 edition);

--- Removed the method summary of loss on ignition (see.2012 version 5.1.1);

--- Modify "silica standard solution (B) (1mg solution contains 0.02mg silica)" to "silica standard solution (B) (1 mL of solution contains

0.02 mg of silica)" (see 5.2.1.2.15, 5.2.1.2.15 of the.2012 edition);

--- Modify "potassium phthalate" to "potassium hydrogen phthalate" (see 5.2.3.2.10,.2012 version 5.2.3.2.10);

--- Modify "add 10mL potassium fluoride solution (150g/L), stir with a plastic rod, add potassium chloride (solid) to saturation" to "to While stirring the plastic rod, add potassium chloride (solid) to saturation and add 10mL of potassium fluoride solution (150g/L)" (see 5.2.3.4.3, (5.2.3.4.3 of the.2012 version);

--- Modify "95% ethanol" to "anhydrous ethanol" (see 5.8.2.3,.2012 version 5.8.2.3);

--- Modify "for the determination of acid-soluble iron, calcium carbonate, and hydrochloric acid solubles." to "for the determination of acid-soluble iron, acid-soluble calcium." (see 5.8.4.1, 2012 version 5.8.4.1);

--- Removed the visual colorimetry (C method) (see the.2012 version 5.18.3);

--- Added flame atomic absorption spectrophotometry (C method) (see 5.18.3);

--- Increased inductively coupled plasma emission spectrometry copper and manganese determination method (method C) (see 5.20). This standard was proposed by the China Building Materials Federation. This standard is under the jurisdiction of the National Non-metallic Mineral Products and Products Standardization Technical Committee (SAC/TC406). This standard was drafted by: Guilin Guiguang Talc Development Co., Ltd., Xianyang Nonmetallic Mine Research and Design Institute Co., Ltd., Guangxi Longsheng Huamei Talc Development Co., Ltd., National Quality Supervision and Inspection Center for Non-metallic Mineral Products, Suzhou Youkuang New Material Co., Ltd., Shun Foshan German District Quality and Technical Supervision Standards and Coding Institute, PLA Air Force Military Medical University. The main drafters of this standard. Zhu Meng, Chen Xiangbo, Wang Kaile, Zhao Weilin, Wang Yinmu, Liu Hui, Shang Zitian, Shang Cuifang, Li

Ningning. The previous versions of the standard replaced by this standard are as follows:

1 Scope

GB/T 15343-2020 is the Chinese national standard on methods for chemical analysis of talc, in the field of mining and minerals. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 2 June 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2021.

Classification: ICS 73.080, CCS Q64. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the loss on ignition of talc products, silica, total iron, aluminum oxide, titanium dioxide, calcium oxide, magnesium oxide, potassium oxide, oxygen Sodium chloride, hydrochloric acid insolubles, acid soluble iron, acid soluble calcium, manganese, copper, acid solubles, water solubles and their acidity and alkalinity, iron salts, arsenic, heavy metals, lead, etc. Analytical methods of scientific composition. This standard applies to the analysis of the composition of natural talc blocks and talc powder.

2 Normative references

The following documents are essential for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 8170 Numerical Rounding Rules and Representation and Judgment of Limit Values
GB/T 15341 talc GB/T 15342 Talc powder

3 General

3.1 In addition to moisture determination, the sample should be dried at 105 °C ~ 110 °C 2h, and placed in a desiccator to cool to room temperature before weighing samples.

3.2 Unless otherwise specified, the sample weighing should be accurate to 0.1mg. The constant weight in this method refers to the difference between the two weighings At 0.3mg.

3.3 The water used in this method, unless otherwise stated, in the analysis, only use distilled water or deionized water or equivalent purity. Place Unless otherwise specified, the solution is an aqueous solution.

3.4 The concentration of the solution is the quantity concentration of the substance or the

mass (g/L) of the solute contained in the 1L solution. Such as (1 1), (1 2), (mn) etc. Refers to the ratio of solute volume to water volume.

3.5 Unless otherwise specified, only reagents that are confirmed as analytically pure or superior grade pure are used in the analysis, and reagents used for calibration are only used as Reference reagent or spectrally pure and high-purity reagent. Unless otherwise stated, the acid and ammonia used in the analysis are only used as concentrated acid or concentrated ammonia.

3.6 In addition to the determination of loss on ignition, all other measurements should be carried out at the same time as a blank test, and the results of the test should be corrected.

3.7 Unless otherwise specified, the value of the analysis result (%) is rounded to two decimal places according to GB/T 8170.

4.1 Selection of samples

4.1.1 The talc block sample shall be taken according to GB/T 15341.

4.1.2 The talc powder sample shall be taken according to GB/T 15342.