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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 3341-2012

## Determination of sulfide in gypsum plasterboard. Methylene blue spectrophotometric method

石膏板中硫化物含量的测定 亚甲基蓝分光光度法

**(English Translation)**

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## Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. Tianjin People's Republic of China Exit Inspection and Quarantine.

## 1 Scope

This standard specifies the content of the methylene blue spectrophotometric determination of sulfide in plasterboard.

This standard applies to the determination of sulfide content in the gypsum board.

Measurement range. gypsum board sulphide content (hydrogen sulfide calculation) is 0.50μg/g ~ 80.00μg/g.

## 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 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 GB/T 21297 tapered frosted glass laboratory equipment swap connector



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## 3 Method summary

Sample with a solution of hydrochloric acid decomposition sulfide, hydrogen sulfide produced by cadmium acetate buffer solution absorption, cadmium sulfide precipitate is formed, adding sulfuric acid solution Liquid hydrogen sulfide, hydrogen sulfide and methylene blue solution and the role of ferric chloride solution to produce methylene blue. With a spectrophotometer Color quantification.

## 4 Reagents

Unless otherwise specified, all reagents were of analytical grade, test water for the two water or GB/T 6682 as specified in the above specifications.

**4.1**
hydrochloric acid (rho = 1.19g/mL).

**4.2**
sulfate (rho = 1.84g/mL).

**4.3**
acetic acid (rho = 1.05g/mL).

**4.4**
cadmium sulfate.

**4.5**
sodium hydroxide.

**4.6**
ammonium polyvinyl alcohol.

**4.7**
pairs of amino-dimethylaniline hydrochloride.

**4.8**
ferric chloride.

**4.9**
diammonium phosphate.

**4.10**
iodate, level.



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**4.11**
sodium thiosulfate.

**4.12**
sodium carbonate.

**4.13**
starch.



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