

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

SN/T 2297.6-2012

**Gypsum and gypsum products. Part 6: Determination of sulfur
(English Translation)**

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Foreword

SN/T 2297 "gypsum and gypsum products" is divided into 6 parts.

Part 1. Determination of strontium content;

- Part 2. Determination of organic matter;

- Part 3. Determination of sulfide content;

- Part 4. Determination of volatile sulfur compounds;

- Part 5. Determination of sulfur content - Gas chromatographic - mass spectrometry;

Part 6. Determination of elemental sulfur.

This section is part 6 of SN/T 2297.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

1 Scope

This part of SN/T 2297 specifies the high temperature combustion infrared absorption method for the determination of elemental sulfur content in gypsum and gypsum products for construction.

This part applies to the construction of gypsum and gypsum products, the determination of sulfur content, the method to detect the low limit of 2mg/kg.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

General rules for sampling and sampling of bulk mineral products GB/T GB/T 6379.2

Accuracy of measurement methods and results (accuracy and precision) - Part 2.
Determination of standard measurement methods the basic method of sex and
reproducibility GB/T 21297 Laboratory glass instruments - Interchangeable conical mats

3 Method summary

The elemental sulfur in the sample was extracted with acetone and a certain amount of high purity copper was added to the flask containing acetone. The copper was extracted with the extracted sulfur should produce copper sulfide. The sulfur content in the high-purity copper sheet after the reaction was measured by high-temperature combustion infrared absorption method, and then calculated according to the calculation formula the sulfur content of the element in the sample.

4 Instruments and equipment

4.1

ultra-centrifugal grinding machine. speed can reach 14000r/min.

4.2

Analysis of balance. sense of 0.1mg.

4.3

carbon and sulfur analyzer. a tube heating furnace, the temperature can reach 1350 °C.

4.4

Crucible. ceramic, size 50mm x 15mm x 10mm.

4.5

Soxhlet extraction device. shown in Figure 1. Including the extraction of the flask (A), the Soxhlet extractor (B) and the format condenser (C). Allow the use of work the same instrument can be used to replace the instrument described in Fig. All grinding ports must comply with the requirements in GB/T 21297 and before assembly Sealed with glycerol.