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Replacing GB/T 5483-1996

Natural gypsum

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Foreword

This standard replaces GB/T 5483-1996 “Gypsum and anhydrite”.

As compared with GB/T 5483-1996, the main changes of this standard are as follows:

- CHANGE the standard name;
- MODIFY the “Subject content and scope of use” into “Scope” and MODIFY the contents (Chapter 1 of 1996 version; Chapter 1 of this version);
- MODIFY the “Normative references”; ADD the introductory information; ADD the year to the reference standards (Chapter 2 of 1996 version; Chapter 2 of this version);
- ADD Chapter 3 “Terms and definitions” (SEE Chapter 3);
- MODIFY the “Product classification” into “classification and level” (Chapter 4 of 1996 version; Chapter 4 of this version);
- MODIFY the “block size” into “specifications” (Clause 4.2 of 1996 version; Clause 4.2 of this version);
- DELETE the “product name” from Table 1, and DELETE the molecular formula (Table 1 of 1996 version; Table 1 of this version);
- ADD the “Determination of free water” (Clause 6.1 of this version);
- ADJUST the clause on the “Determination of grade” (Chapter 6 of 1996 version; Clause 6.2 of this version);
- USE the letter to replace substitute the molecular formula in the grade calculation (Chapter 6 of 1996 version; Clause 6.2.3 of this version);
- MODIFY the “Acceptance rules” into “Testing rules” (Chapter 7 of 1996 version; Chapter 7 of this version);
- MODIFY the “Batch and number” into the “Batching rules” (Clause 7.1 of 1996 version; Clause 7.1 of this version);
- DELETE the “delivery and acceptance” from the original standard (Clause 7.2 of 1996 version);
- MODIFY the “Sampling method” into “Sampling method and same preparation” (Clause 7.3 of 1996 version; Clause 7.2 of this version);

Natural gypsum

1 Scope

This standard specifies the terms and definitions, classification and level, requirements, test methods, inspection rules, markings, packaging, transport and storage of natural gypsum products.

This standard applies to natural gypsum mineral products output in nature.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 2007.2-1987 General rules for the sampling and sample preparation of minerals in bulk - Manual method of sample preparation

GB/T 5484 Methods for chemical analysis of gypsum

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Grade

It refers to the content of the useful components or useful minerals per unit volume or unit mass of ore.

3.2

Free water (H₂O⁻)

It refers to the moisture absorbed by the material from air.

3.3

G_2 - Grade of category A and M products, %;

X_1 - Mass fraction of CaSO_4 , %;

W - Mass fraction of combined water, %;

S - Mass fraction of sulfur trioxide, %.

7 Testing rules

7.1 Batching principles

Acceptance and supply of natural gypsum products are made by batch. The 300 t of natural gypsum of same category and same level which is supplied together is considered as one batch, AND those less than 300 t is also considered as one batch.

7.2 Sampling methods and sample preparation

7.2.1 USE the grid method. It shall be in accordance with the ore mass, block uniformity, and ore pile volume to determine the grid spacing. During sampling, it shall take sample from different depths, AND the sampling amount is almost same for each sampling.

7.2.2 In case of bulk delivery, the number of sampling points per batch shall not be less than 10, and each sampling amount shall not be less than 10 kg, which constitutes the total sample; AND in case of packaged delivery, the number of packaging bags from which sample is taken in each batch shall be not less than 20, and each sampling amount shall not be less than 5 kg, which constitutes the total sample.

7.2.3 Sample preparation

It shall be in accordance with the provisions of clause 4.3 in GB/T 2007.2-1987 on "Sample preparation procedures".

7.3 Testing

The basic analysis items include free water, combined water, and sulfur trioxide. Other analysis items shall be as agreed upon by both the supplier and purchaser.

7.4 Judgement rules

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