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NONFERROUS METAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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YS/T 231-2015

Replacing YS/T 231-2007

Tungsten concentrate

钨精矿

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Foreword

This Standard is drafted according to the rules given in the GB/T 1.1-2009.

This Standard replaces YS/T 213-2007 “*Tungsten concentrate*”.

Compared with YS/T 213-2007, the main changes of this Standard are as follows:

- ADJUST the chemical composition accordingly;
- REVISE the test methods and the inspection rules.

This Standard was proposed by and shall be under the jurisdiction of China National Standardization Technical Committee of Nonferrous Metals.

Drafting organizations of this Standard: Ganzhou Nonferrous Metallurgy Research Institute, Chenzhou Diamond Tungsten Products Co., Ltd, Hunan Shizhuyuan Nonferrous Metals Co., Ltd, China Molybdenum Co., Ltd (Luoyang).

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The historical versions replaced by this Standard are as follows:

- YB/T 504-65, GB 52825-19814;
- YS/T 231-1994, YS/T 231-2007.

Tungsten concentrate

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marks, package, transportation, storage, quality certificate and orders (or contracts) for the tungsten concentrate.

This Standard applies to tungsten concentrate products selected in mine; it can be used for producing ammonium paratungstate, tungstic acid, ammonium metatungstate, tungsten oxide etc.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 1480 Metallic powder - Determination of particle size by dry sieving

GB/T 4414 Methods of sampling and sample preparation of tungsten concentrates in bags

GB/T 6150 (All parts) Methods for chemical analysis of tungsten concentrates

GB/T 26019 Methods for chemical analysis of high impurity tungsten mineral - Determination of tungsten trioxide content - Twice separation and igniting gravimetric method

3 Requirements

3.1 Product classification

According to mineral types, tungsten concentrate is divided into scheelite and wolframite; according to chemical composition, it is divided into total 14 types – premium grade, grade I, grade II, grade III, grade IV, grade V, mixed tungsten concentrate, and tungsten-slime. Mixed tungsten concentrate refers to the scheelite and wolframite - without strictly-separated tungsten concentrate. Tungsten-slime refers to tungsten products of which the granularity is less than 0.074 mm [The content (mass fraction) of WO_3 is 20%~40%], and the impurity contents are relatively high.

6.2.1 Use the double-ply bags to pack the tungsten concentrate. The bag openings shall be sealed. The materials of packages shall be negotiated by the suppliers and the buyers. The net weight of each bag of products shall be 50 kg or 1000 kg.

6.2.2 Keep dry when transporting. The products shall be stored in the dry place but not the open air. Prevent from the damage of the packages.

6.3 Quality certificate

A quality certificate shall be attached to each batch of products, which shall note:

- a) Name of suppliers;
- b) Name of products;
- c) Batch number;
- d) Variety;
- e) Number and net weight;
- f) Inspection results and the marks of technical supervision departments;
- g) Serial number of this Standard;
- h) Date of exit-factory.

7 Contents of the orders (or contracts)

The orders listed by this Standard shall include following contents:

- a) Name of products;
- b) Variety;
- c) Specific requirements of impurity content;
- d) Quantity and net weight;
- e) Number of this Standard;
- f) Others.

_____ **END** _____

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