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YB

FERROUS METALLURGY INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 73.080

Q 52

YB/T 042-2014

Replacing YB/T 042-2004

Lime for metallurgical

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Foreword

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

This standard replaces YB/T 042-2004 "Lime for metallurgical". Compared with YB/T 042-2004, the main technical changes are as follows:

- In clause 4.1, MODIFY the general grade of metallurgical lime, FROM superior grade, first grade, second grade, third grade, fourth grade TO superior grade, first grade, second grade, third grade;
- In clause 4.1, MAKE corresponding adjustments to the physical and chemical indicators;
- In clause 4.2, MAKE corresponding adjustments to the product granularity;
- In Clause 6.1, MAKE corresponding adjustments to the inspection batch size;
- In clause 6.2, MAKE corresponding adjustments to the sampling amount;
- In clause 7.1, MAKE corresponding adjustments to the product storage time.

This standard was proposed by the China Iron and Steel Industry Association.

This standard shall be under the jurisdiction of the National Steel Standardization Technical Committee (TC 183).

Drafting organizations of this standard: Wuhan Iron and Steel (Group) Company, Metallurgical Industry Information Standards Research Institute.

The main drafters of this standard: Mo Ying, Hu Bo, Wei Wenquan, Wan Yuanyuan, You Daoming, Cai Jiming, Bai Hanfang, Qiu Jinhui, Wang Jiangwei.

This standard replaces the standard previously issued as follows:

- YB/T 042-1993, YB/T 042-2004.

Lime for metallurgical

1 Scope

This standard specifies the classification, technical requirements, test methods, inspection rules, storage, transportation, quality certificates of metallurgical lime.

This standard applies to freshly burnt lime, which is used in the metallurgical industry.

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) is applicable to this standard.

GB/T 2007.1 General rules for the sampling and sample preparation of minerals in bulk - Sampling by manual method

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

GB/T 2007.7 General rules for the sampling and sample preparation of minerals in bulk - The method for determination of size by manual sieving

GB/T 3286.1 Methods for chemical analysis of limestone and dolomite - Part 1: The determination of calcium oxide and magnesium oxide content - The complexometric titration method and the flame atomic absorption spectrometric method

GB/T 3286.2 Methods for chemical analysis of limestone and dolomite - Part 2: The determination of silicon dioxide content - The silicomolybdenic blue spectrophotometric method and the perchloric acid dehydration gravimetric method

GB/T 3286.7 Methods for chemical analysis of limestone and dolomite - The determination of sulphur content

GB/T 3286.8 Chemical analysis of limestone and dolomite - The molybdenum blue photometric method for determination of phosphorus

GB/T 8170 Rules of rounding off for numerical values & expression and

6.2.1.1 Sampling amount

For continuous discharging production, take about 5 kg of sample every 2 h; for intermittent discharging production, take about 5 kg of sample for each discharging 5 kg of sample. Half of the 5 kg sample is sent for inspection; the other half is used as backup sample.

6.2.1.2 Sampling method

Use a sampling machine, a sampling shovel or a shovel, to evenly intercept the entire material flow. For every 5 kg sample taken, the number of interceptions shall not be less than 4.

6.2.1.3 Sample storage

The container for storing the sample must be tightly closed, moisture-proof, placed in a dry place.

6.2.2 Sample preparation

Combine the sample taken into a large sample. Crush it, to make it pass through a 40 mm square-hole sieve. Prepare the sample, according to the relevant provisions of GB/T 2007.2.

6.3 Judgment rules

6.3.1 The quality inspection of the product shall be carried out, by the technical quality supervision department, which is jointly recognized by the supplier and the buyer.

6.3.2 The physical and chemical indexes AND particle size indexes of the samples taken shall meet the requirements in Table 1 and Table 2.

6.3.3 If there are unqualified items in the inspection results, re-inspect the unqualified items, by the use of backup samples. If the result of the re-inspection is qualified, the batch is judged to be qualified; otherwise, it is judged to be unqualified.

7 Transport, storage, quality certificate

7.1 The storage time of product t generally does not exceed 3d. During storage and transportation, it must be dry, rain-proof, moisture-proof. The carriage must be cleaned before loading.

7.2 A quality certificate must be provided for each batch of exit-factory products, which indicates the following:

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