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METALLURGY INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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YB/T 115-2004

Replacing YB/T 115-1997

Silica fume for unshaped refractory

不定形耐火材料用二氧化硅微粉

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Foreword

This Standard replaces *YB/T 115-1997 Silica Fume for Unshaped Refractory*.

Compared with YB/T 115-1997, the main changes of this Standard are as follows:

- Modify the second paragraph of scope;
- Add the notations for designations; use designations to replace the grade of the previous standard;
- Adjust the reference standards in the previous standard; add the reference standard GB/T 9724;
- Adjust the indexes of calcium-magnesium, potassium-sodium and loss on ignition of the previous standard;
- Change the batch in the previous standard from “10t/batch” into “20t/batch”;
- Change the factory-exit inspection of the previous standard from 6 items to 5 items.

Annex A of this Standard is normative.

This Standard was proposed by China Iron and Steel Association.

This Standard shall be under the jurisdiction of China Metallurgical Information and Standard Institute.

Drafting organizations of this Standard: Tianjin Chaoyang Refractory Factory, and China Metallurgical Information and Standard Institute.

Main drafters of this Standard: Xu Daxiong, Chen Zhiqiang, and Gao Jianping.

This Standard was first-time released in 1997.

Silica Fume for Unshaped Refractory

1 Scope

This Standard specifies the designations, technical requirements, test methods, packaging, marking, storage, transport, and quality certificates of silica fume for unshaped refractory.

This Standard applies to that – when smelting ferrous alloys or industrial silicon, silica-bearing fume are gathered by fume hoods; after oxidized and agglomerated, silica fume is collected through dry dust collectors.

2 Normative references

The articles contained in the following documents have become part of this Standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 6901.1 Rules for the presentation of graphical symbols for use in technical product documentation - Part 1: Basic rules

GB/T 6901.2 Rules for the presentation of graphical symbols - Graphical symbols for use in the technical documentation of products - Part 2: Specification for graphical symbols in a computer sensible form, including graphical symbols for a reference library, and requirements

GB/T 6901.3 Rules for the presentation of graphical symbols - Graphical symbols for use in the technical documentation of products - Part 3: Classification of connect notes networks and their encoding

GB/T 6901.4 Chemical analysis of silica refractories - Part 4: Determination of iron oxide - o-Phenanthroline photometric method

GB/T 6901.5 Chemical analysis of silica refractories - Part 5: Determination of aluminium oxide - Chromazurol S photometric method

GB/T 6901.6 Chemical analysis of silica refractories - Part 6: Determination of aluminium oxide - EDTA volumetric method

GB/T 6901.8 Chemical analysis of silica refractories - Part 8: Determination of calcium oxide and magnesium oxide - Atomic absorption spectrophotometric method

GB/T 6901.9 Chemical analysis of silica refractproes - Part 9: Determination of

potassium oxide and sodium oxide - Atomic absorption spectrophotometric method

GB/T 9724 Chemical reagent - General rule for the determination of pH

GB/T 13390 Metallic powder-Determination of the specific surface area - Method of nitrogen adsorption

GB/T 15545 Unshaped refractory - Packing, marking, transportation and storage

GB/T 16555.1-1996 Chemical analysis for silicon carbide refractories - Determination of silicon carbide - Absorb gravimetric method

YB/T 5164 Test method for sieve analysis of refractory mortar

3 Designations

SF – the English acronym for silica fume. The number following after it is the percentage content of silica.

Silica fume has 4 designations in total, that is, SF96, SF93, SF90, and SF88.

4. Technical Requirements

The physiochemical indexes of silica fume are shown in Table 1. Any special requirements can be determined through negotiation by supplier and purchaser.

5 Test Methods

5.1 Silica shall be determined in accordance with GB/T 6901.2 or GB/T 6901.3.

5.2 Alumina shall be determined in accordance with GB/T 6901.5 or GB/T 6901.6.

5.3 Ferric oxide shall be determined in accordance with GB/T 6901.4.

5.4 Calcia and magnesia shall be determined in accordance with GB/T 6901.8.

5.5 Potassium oxide and sodium oxide shall be determined in accordance with GB/T 6901.9.

5.6 Carbon content shall be determined in accordance with Article 7.4.2 in GB/T 16555.1-1996.

5.7 Loss on ignition shall be determined in accordance with GB/T 6901.1.

5.8 pH determination: weigh 5.00g of silica fume; put it into a 150mL beaker. Add 50mL of distilled water into the beaker; continuously stir the mixture for 5min, until it becomes

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