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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 14982-2008

Replacing GB/T 14982-1994

Fireclay refractory mortars

粘土质耐火泥浆

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Foreword

This standard replaces GB/T 14982-1994 "Fireclay refractory mortar".

Compared with GB/T 14982-1994, the main technical differences of this standard are as follows:

- Modify the refractoriness indicator;
- Designation of phosphate binding refractory mortar is changed by P;
- Adjust the heating permanent linear-change rate for designations NN-30 and NN-38;
- Adjust the heating permanent linear-change test-temperature for designations NN-42, NN-45 and NN-45P.

This standard was proposed by and shall be under the jurisdiction of National Refractory Material Standardization Technical Committee.

Drafting organizations of this standard: MCC Wuhan Ye Jian Technology Co., Ltd. AND Wuhan Weilin lining material Co., Ltd.

Main drafters of this standard: Fang Changrong, Su Boping, Xie Zhaohui, Lei Qingyun, Peng Yan and Li Bo.

The historical version replaced by this standard is as follows:

- GB/T 14982-1994.

Fireclay refractory mortars

1 Application Scope

This standard specifies the fireclay refractory mortar's classification, technical requirements, test methods, quality evaluation procedures, packaging, marking, transportation, storage and quality certificate.

This standard applies to fireclay refractory mortars that are used for fireclay bricks.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) 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 6900 Chemical analysis of alumina-silica refractories

GB/T 7322 Refractory products - Determination of pyrometric cone equivalent (refractoriness)

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

GB/T 17617 Refractory products - Sampling of raw materials and unshaped products

GB/T 22459.3 Refractory mortars - Part 3: Determination of joint stability

GB/T 22459.4 Refractory mortars - Part 4: Determination of flexural bonding strength

GB/T 22459.5 Refractory mortars - Part 5: Determination of grain size distribution (sieve analysis)

GB/T 22459.7 Refractory mortars - Part 7: Determination of properties at elevated temperatures

3 Classification

Fireclay refractory mortar, according to physiochemical properties, are divided into 5 designations: NN-30, NN-42, NN-45, NN-45P. N and N represent the first letters of

6 Quality evaluation procedure

6.1 Group-batch

6.1.1 Products are batched according to the same designation in a continuous normal production. When there are changes in raw materials or production processes, then it shall be batched separately.

6.1.2 For the same-designation products, the maximum amount of each batch is 60 tons.

6.2 Sampling

Fireclay refractory mortar's sampling shall be in accordance with the provisions of GB/T 17617.

6.3 Determination rules

Refractoriness, room temperature flexural bond strength, load softening temperature are the acceptance test items. When all the inspection results comply with the values specified in Table 1, then this batch of products are deemed as qualified.

When the inspection results have failed items, it shall re-sample double-quantity according to 6.2 to conduct re-inspection. If single-value of re-inspection results complies with the provisions in Table 1, then it is determined that this batch of products are qualified; otherwise, it is determined as unqualified batch.

6.4 Form of conformity evaluation

Conformity evaluation may adopt declaration by the supplier, verification by the receiving party, or authentication by third party.

7 Packaging, marking, transportation, storage and quality certificate

7.1 Packaging, marking, transportation and storage shall comply with GB/T 15545.

7.2 The liquid binder may be packaged in plastic drums and delivered separately.

7.3 When delivering the products, the supplier shall provide the quality certificate and the product instruction manual; quality certificate shall indicate the contents such as supplier's name, the name of the demand-side, manufacturing date, contract number, standard number, product name, designation, batch number, physiochemical indicators, and preservation period.

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