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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30870-2014

Classification of special dense shaped refractory products

特种致密定形耐火制品分类

(English Translation)

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard uses translation method and identically adopts ISO 10081-

4.2007 Classification of dense shaped refractory products - Part 4. Special products.

This Standard makes following editorial modification.

- deleted Bibliography.

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee on Refractory materials of Standardization Administration of China (SAC/TC 193).

The drafting organizations of this Standard. Metallurgical Industry Information Standards Institute, Sinosteel Luoyang Refractories Research Institute Co., Ltd., Ruitai Technology Co., Ltd., Zhejiang Zili Company Limited.

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Classification of special dense shaped refractory products

1 Scope

This Standard specifies the classification and designation of dense shaped refractory products of special composition including oxide products, oxide and non-oxide products, non-oxide silicon carbide or carbon-based products, and further special products which are only designated but not classified, for example, non-oxide products, such as boride, nitride or further combinations of the series listed above.

2 Classification principle

Dense shaped special products shall be classified according to the following six criteria.

- a) the type of product;
- b) the group determined by the content of its main chemical component(s);
- c) the principal raw material(s);
- d) the state of the raw materials;
- e) the nature of the bond;
- f) any post-treatment;

3.1 Type of product

The following types of dense shaped refractory special products shall be classified by chemical analysis as shown in 3.2.

- a) alumina-chromia (ACr);
- b) chromia (Cr);
- c) alumina-chromia-zirconia (ACrZ);

designation of dense shaped refractory products of the mentioned series.

EXAMPLES Some examples of designations are as follows.

- alumina-chromia products in the group ACr70/5, based on synthetic sintered corundum and chromia with an oxide ceramic bond;
- alumina-zirconia-silica products of the group AZS15, based on synthetic

sintered corundum and naturally occurring zircon with an oxide ceramic bond;

- alumina-carbon products with antioxidant additives of the group AC80/5A, based on naturally occurring sintered bauxite with an organic chemical bond, with tempering;

- silicon carbide products of the group SiC70, based on synthetic silicon carbide with silicon nitride bond;

- carbon product of the group C60, based on synthetic graphite with an organic chemical bond formed at higher temperatures.

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