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

GB/T 34188-2017

Fireclay refractory bricks

粘土质耐火砖

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. Please note that some of this document may be patentable. The release of this document The agency does not assume responsibility for identifying these patents. This standard by the National Refractory Standardization Technical Committee (SAC/TC193) and focal point. This standard was drafted unit. Shandong Refractory Group Lu resistant Kiln Co., Ltd., Shanxi Yuxian Xixiaoping Refractories Co., Ltd. Zhengzhou Ann Ke Industrial Co., Ltd., Sinosteel Luoyang Refractory Research Institute Co., Ltd.. The main drafters of this standard. Wang Wenxue, Yan Chau Cheung, Cai Guoqing, Liu Wei, Shao Hong, Woburn, Qin Yinjun, Li Fuchao, Sun Gengchen, Peng Xigao, Wang Xiaoli. Clay refractory brick

1 Scope

China's national standard for fireclay refractory bricks. It specifies the terms and definitions, the classification, the shape and dimensions, the technical requirements, the test methods, the quality assessment procedure and the packaging, marking, transport, storage and quality certificate, and it applies to ordinary and dense fireclay bricks for high temperature furnaces. Fireclay brick is the workhorse refractory: alumina and silica in roughly equal measure, fired from natural clay, cheap, and stable to well above a thousand degrees. It lines blast furnace stoves, coke ovens, ladles, kilns, boilers and every other place where something hot has to be kept away from something structural. It is not the most refractory material available and it does not need to be. What it offers is adequate temperature resistance at a price that allows a furnace lining measured in thousands of tonnes, and a thermal expansion low enough that a lining survives being heated and cooled. The standard's technical requirements are accordingly about consistency more than about peak performance: a lining fails at its weakest brick.

This standard specifies the terms and definitions of clay refractory bricks, classification, shape and size, technical requirements, test methods, quality assessment procedures, Packaging, marking, transport, storage and quality certificate. This standard applies to high temperature furnace ordinary clay brick, dense clay brick, low creep clay brick and thermal shock clay brick.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2992.1 firebrick shape and size - Part 1. General purpose brick

GB/T 2997 dense shaped refractory products bulk density, apparent porosity and true porosity test method

GB/T 3002 refractory high temperature strength test method

GB/T 5072 refractory materials at room temperature compressive strength test methods

GB/T 5073 Refractory materials - Creep test method

GB/T 5988 refractory heating permanent change test method

GB/T 6900 aluminum silicon refractory chemical analysis methods

GB/T 7321 shaped refractory products sample preparation method

GB/T 10325 Shaped refractory products acceptance inspection sampling rules

GB/T 10326 shaped refractory products size, appearance and cross-section of the inspection methods Refractory materials - Test methods for resistance to alkalis GB/T

GB/T 16546 Shaped refractory products packaging, marking, transportation and storage Refractory materials - X - ray fluorescence spectrometric chemical analysis - Cast glass method Test methods for resistance to thermal shock of

GB/T 30873 YB/T 370 refractory products load softening temperature test method (non-differential - heating method) YB/T 4198 ladle with firebrick shape and size YB/T 5012 blast furnace and stove with firebrick shape and size YB/T 5110 Casting firebrick shape and size YB/T 5113 ladle steel castings with refractory shape and size

3 Terms and definitions

GB/T 10325 and defined by the following terms and definitions apply to this document.

3.1 Ordinary clay brick fireclayrefractorybrick Hard clay clinker as the main raw material of ordinary clay products.

3.2 Dense clay brick densefireclaybrick Stomatal ratio was lower firing of clay products.