



National Standard of the People's Republic of China

GB/T 2988—2012
Replace GB/T 2988—2004

High alumina bricks

高铝砖

(English Translation)

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Foreword

SAC/TC 193 is in charge of this English translation. In case of any doubt about the contents of English translation, the Chinese original shall be considered authoritative.

This standard is drafted in accordance with the rules given in the GB/T 1.1—2009

This standard replaces GB/T 2988—2004 *High alumina bricks* in whole, and changes in this standard over the previous edition are as follows.

—YB/T 5015—1993 *High alumina bricks for blast furnace*, YB/T 5016—2000 *High alumina bricks for hot blast furnace*, YB/T 5017—2000 *High alumina bricks for electric arc furnace roof*, YB/T 5020—2002 *High alumina bricks for molten steel ladle*, and GB/T 2988—2004 *High alumina bricks* are integrated and revised.

—Indexes of low creep checker brick series are added.

—High alumina groups are unified as LZ.

—Groups of LZ-70, LZ-75G, LZ-65G and LZ-55G are added.

—Indexes of apparent porosity, permanent change in dimension on heating, refractoriness under load, and cold compressive strength are revised.

—The size tolerance and appearance requirements of checker bricks are added.

—Some size and appearance requirements are revised.

—The statistics meanings of characteristic indexes of chemical composition and physical properties of products are defined, and the average value of qualified lots and standard tolerance are introduced.

This standard was proposed and prepared by SAC/TC 193 Technical Committee on Refractories of Standardization Administration of China.

The previous editions are as follows:

—GB/T 2988—1982, GB/T 2988—1987, GB/T 2988—2004.

High alumina bricks

1 Scope

This standard specifies the classification, dimensions, technological requirements, test methods, quality appraisal procedure, packing, marking, transportation, storage, and quality certificate of high alumina bricks.

This standard is applicable to the common high alumina bricks and low creep high alumina bricks for high temperature furnaces and kilns.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 2992.1, *Dimensions of refractory bricks—Part 1: Specification for general bricks*

GB/T 2997, *Test method for bulk density, apparent porosity and true porosity of dense shaped refractory products*

GB/T 5072, *Refractories—Determination of cold compressive strength*

GB/T 5073, *Refractory products—Test method of creep in compression*

GB/T 5988, *Refractory products—Determination of permanent change in dimension on heating*

GB/T 6900, *Chemical analysis of alumina-silica refractories*

GB/T 7321, *Sample preparation for testing of shaped refractory products*

GB/T 10325, *Shaped refractory products—Rule of acceptance, sampling and inspection*

GB/T 10326, *Refractory products—Inspections of dimension, appearance and section*