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

GB/T 2847-2022

Replacing GB/T 2847-2005

Pozzolanic materials used for cement production

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces GB/T 2847-2005 "Pozzolanic Mixtures Used in Cement". Compared with GB/T 2847-2005, except

Apart from structural adjustments and editorial changes, the main technical changes are as follows.

a) Changed the code for pozzolanic mixed materials in "Classification and Code" (see Chapter 4, Chapter 4 of the.2005 edition);

b) Added "total amount (mass fraction) of silicon dioxide (SiO_2) and aluminum oxide (Al_2O_3)", "leachable heavy metal content" and "alkali content

Quantity" technical requirements (see 5.1, 5.3 and 5.4);

c) Increased the requirements for the preparation of test materials (see Chapter 6);

d) Added the test methods of "silicon dioxide (SiO_2), aluminum oxide (Al_2O_3)" and "leachable heavy metal content" (see 7.2, 7.6); more

- Changed the test methods of "loss on ignition" and "activity index" (see 7.2, 7.4, Chapter 6 of the.2005 edition);

e) Changed the provisions of factory inspection items (see 8.2, 7.2 of the.2005 edition);

f) Changed the judgment rules (see 9.1, 9.2, 7.4 of the.2005 edition);

g) Changed dispute handling method (see 9.3, 7.5 of the.2005 edition);

h) Added "flag" (see 10.1);

i) The requirements for test materials in the pozzolanic test method have been changed (see A.5, A.6 of the 2005 edition).

This document was drafted with reference to ISO 863:2008 "Test methods for pozzolanic cement pozzolanic properties of cement", and the degree of consistency is very high. equivalent.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the classification, technical requirements, test samples, test methods, inspection rules, judgment rules, and

Labeling, transport and storage.

This document applies to pozzolanic materials used as admixtures in cement production.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB 175 General Portland cement

GB/T 176 Cement chemical analysis method

GB 6566 Limits of radionuclides in building materials

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 12957 Test method for activity of industrial waste residues used in cement admixtures

GB/T 30760 Technical Specifications for Co-processing Solid Waste in Cement Kilns

GB/T 30810 Determination method for leachable heavy metals in cement mortar

GSB14-1510 Standard sample of cement for strength test

JC/T 874 Chemical analysis methods of siliceous raw materials for cement

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

pozzolanicity

The material is ground into a fine powder, which does not have hydraulicity alone, but can form a hydraulically hardened hydration product after being mixed with lime and water at room temperature

performance.

3.2

pozzolanicmaterials

Mainly composed of silica and alumina, it is a mineral material with pozzolanic properties.

4.1 Classification

Pozzolanic materials can be divided into two categories. natural pozzolanic mixed materials and artificial pozzolanic mixed materials according to their origin.

4.2.1 Volcanic ash

Loose deposits of fine-grained debris from volcanic eruptions, code-named N.P.