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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 4117-2003

Test method for explosion resistance of dense refractory castables

致密耐火浇注料抗爆裂性试验方法

(English Translation)

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Foreword

This standard is proposed and managed by the National Technical Committee for Refractory Standardization.

This standard is approved by the State Economic and Trade Commission.

1 Scope

This standard specifies the terms and definitions, principles, samples, test equipment and procedures, and tests for the test method for the burst resistance of dense refractory castables.

Results and test report.

This standard is applicable to the burst resistance test of dense refractory castable below 1000 °C.

Other tests for the burst resistance of unshaped refractories can also be found in this standard.

2 Normative references

The terms in the following documents become the terms of this standard by reference to this standard. All dated references, followed by all Modifications (not including errata

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content) or revisions do not apply to this standard, however, parties to agreements based on this standard are encouraged to study is it possible to use the latest version of these files? For undated references, the latest edition applies to this standard.

YB/T 5202.1-2003 Preparation method of unshaped refractory materials - Part 1 Refractory castable

3 Safety tips

This test is dangerous.

4 Terms and definitions

This standard uses the following terms and definitions.

During the rapid temperature rise of the refractory castable, the pulverizing damage or cracking caused by the gas generated inside cannot be discharged in time.

If the sample does not burst at a set temperature and bursts at a temperature above 50 ° C, then the set temperature is defined as the resistance of the material.

Burst temperature.

5 Principle

The sample was placed in a test furnace at a set temperature, and the sample was observed to burst when it was rapidly heated. Anti-burst of refractory castable it is measured by the anti-burst temperature.

6.1 Size of the sample

The size of the sample was 50 mm x 50 mm x 50 mm.

6.2 Preparation and maintenance of samples

The preparation and curing of the samples were carried out according to YB/T 5202.1-2003.

6.3 Number of samples

Three parallel samples were used at each temperature point of the test.

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