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PEOPLE'S REPUBLIC OF CHINA

JJF 1827-2020

Calibration Specification for Cement Fineness Negative Pressure Screen Analyzers

水泥细度负压筛析仪校准规范

(English Translation)

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Appendix A Original record of calibration of cement fineness negative pressure sieve analyzer (recommended style) (5)

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Appendix C Example of Uncertainty Evaluation of Pressure Indication Calibration of Cement Fineness Negative Pressure Sieve Analyzer (8)

Introduction

JJF 1001-2011 "General Metrology Terms and Definitions", JJF 1059.1-2012 "Measuring Uncertainty Evaluation and Representation", JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications" constitute support for the formulation of this calibration specification Basic documents.

Also refer to JJG52-2013 "Elastic element type general pressure gauge, pressure vacuum gauge and vacuum gauge", GB/T 1345-2005 "Cement Fineness Inspection Method Sieve Analysis Method", GB/T 5329-2003 "Test Sieve and Sieve Test Terminology" technical document.

This specification is released for the first time.

Calibration specification for cement fineness negative pressure sieve analyzer

1 Scope

This specification applies to the calibration of the non-test sieve part of the cement fineness negative pressure sieve analyzer (hereinafter referred to as the sieve analyzer).

2 Reference documents this specification refers to the following documents.

JJG52-2013 elastic element type general pressure gauge, pressure vacuum gauge and vacuum gauge GB/T 1345-2005 Cement fineness inspection method sieve analysis method GB/T 5329-2003 Test sieve and sieving test terminology for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement

3.1 Term

The following terms and definitions defined in GB/T 1345-2005 and GB/T 5329-2003 apply

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to this code.

3.1.1 Sieving

The process of separating different particles according to size with one or more sieves.

[GB/T 5329-2003, Terms and Definitions 2.3.1]

3.1.2 Test sieve A sieve that meets the technical requirements of the test sieve standard and is used for particle size analysis by sieving method.

[GB/T 5329-2003, Terms and Definitions 2.2.2]

3.1.3 Vacuumsieving

Using a negative pressure sieve analyzer, the constant air flow generated by the negative pressure source will make the cement in the test sieve within the specified sieve analysis time Reach the screening.

[GB/T 1345-2005, Terms and Definitions 4.1]

3.2 Unit of measurement the legal measurement unit used for the pressure parameter of the sieve analyzer is Pa (Pascal), or its decimal multiple unit.

4 overview

The sieve analyzer is an industry-specific instrument with metrological performance for sieve analysis of cement fineness.

The sieve analyzer is composed of a sieve seat, a test sieve, a negative pressure source and a dust suction unit. The sieve seat is composed of an air nozzle, a negative pressure gauge, and a time it is composed of a controller, a motor and a housing.

The sieve analyzer adopts the negative pressure sieve analysis method. Its working principle is to use airflow as the motive medium for sieving.

The industrial vacuum cleaner keeps the entire system in the specified negative pressure state, and the powder material to be tested in the screen is in the rotating air nozzle the ejected air flow becomes a fluid under the action of the air flow, and moves with the air flow. The material with a particle diameter smaller than the screen aperture is caused by the air flow.

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