

<b>STN</b>	<b>Metódy skúšania cementu Časť 6: Stanovenie jemnosti mletia</b>	<b>STN EN 196-6</b>
		72 2100

Methods of testing cement - Part 6: Determination of fineness

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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English Version

**Methods of testing cement - Part 6: Determination of  
fineness**

Méthodes d'essai des ciments - Détermination de la  
finesse

Prüfverfahren für Zement - Teil 6: Bestimmung der  
Mahlfeinheit

This European Standard was approved by CEN on 1 July 2018.

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## European foreword

This document (EN 196-6:2018) has been prepared by Technical Committee CEN/TC 51 "Cement and building limes", the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 196-6:2010.

In comparison with the previous edition, the following technical modifications have been made:

- elimination of the determination of bed volume by mercury volume;
- in subclause 4.10, new data for standard deviation of the repeatability and reproducibility have been introduced.

A list of all parts in the EN 196 series can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 196-6:2018 (E)**

## 1 Scope

This document describes three methods of determining the fineness of cement.

The sieving method serves only to demonstrate the presence of coarse cement particles. This method is primarily suited to checking and controlling the production process.

The air-jet sieving method measures the retention on sieving and is suitable for particles which substantially pass a 2,0 mm test sieve. It can be used to determine the particle size distribution of agglomerates of very fine particles. This method can be used with test sieves in a range of aperture sizes, e.g. 63 µm and 90 µm.

The air permeability method (Blaine) measures the specific surface area (surface area related to mass) by comparison with a reference material sample. The determination of the specific surface area serves primarily to check the consistency of the grinding process of one and the same plant. This method only enables a limited assessment to be made of the properties of the cement in use.

**NOTE** The air permeability method may not give significant results for cements containing ultrafine materials.

The methods are applicable to all the cements defined in EN 197-1.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 197-1, *Cement - Part 1: Composition, specifications and conformity criteria for common cements*

ISO 383, *Laboratory glassware — Interchangeable conical ground joints*

ISO 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 4803, *Laboratory glassware — Borosilicate glass tubing*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**