



SLOVENSKI STANDARD
oSIST prEN 18314:2026
01-april-2026

Naravni pucolan in naravni aktivirani pucolanski material - Definicije, specifikacije in merila skladnosti

Natural pozzolana and natural activated pozzolanic material - Definitions, specifications and conformity criteria

Natürliche Puzzolane und natürlich aktivierte Puzzolane - Definitionen, Spezifikationen und Konformitätskriterien

Pouzzolane naturelle et matériau pouzzolanique naturel activé - Définitions, spécifications et critères de conformité

Ta slovenski standard je istoveten z: prEN 18314

ICS:

91.100.10 Cement. Mavec. Apno. Malta Cement. Gypsum. Lime.
Mortar

oSIST prEN 18314:2026

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 18314

February 2026

ICS 91.100.10

English Version

Natural pozzolana and natural activated pozzolanic material - Definitions, specifications and conformity criteria

Pouzzolane naturelle et matériau pouzzolanique naturel activé - Définitions, spécifications et critères de conformité

Natürliche Puzzolane und natürlich aktivierte Puzzolane - Definitionen, Spezifikationen und Konformitätskriterien

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European foreword

This document (prEN 18314:2026) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by SN.

This document is currently submitted to the CEN Enquiry.

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Introduction

Natural pozzolana and natural activated pozzolanic materials are typically siliceous or silico-aluminous materials with pozzolanic properties; examples include materials of volcanic origin, diatomite earths, calcined clays or shales. The use of natural pozzolanic materials in concrete production in some European countries, based on national experience and tradition is a current trend.

If natural pozzolanic materials are out of the scope of this document, their suitability for use as additions in concrete according to EN 206:2013+A2:2021 can also be established from national standards or provisions or European Technical Approvals (ETA) valid in the place of use of the concrete and which refer specifically to the use of the addition in concrete conforming to EN 206:2013+A2:2021.

When using natural pozzolanic materials conforming to this document, it can be noted that, apart from the pozzolanic effect of the product, certain properties of fresh and hardened concrete can be affected. Where relevant, such effects need to be considered in concrete mix design.

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1 Scope

This document specifies requirements for chemical and physical properties of natural pozzolana and natural activated pozzolanic material for use as addition to concrete, and for use in mortar and grouts.

It also specifies requirements for conformity criteria.

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 196-1, *Methods of testing cement — Part 1: Determination of strength*

EN 196-2, *Methods of testing cement — Part 2: Chemical analysis of cement*

EN 196-3, *Methods of testing cement — Part 3: Determination of setting times and soundness*

EN 196-6, *Methods of testing cement — Part 6: Determination of fineness*

EN 196-7, *Methods of testing cement — Part 7: Methods of taking and preparing samples of cement*

EN 196-12, *Methods of testing cement — Part 12: Reactivity of cement constituents - Heat of hydration and bound water content methods*

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

EN 451-2, *Method of testing fly ash — Part 2: Determination of fineness by wet sieving*

EN 933-9, *Tests for geometrical properties of aggregates — Part 9: Assessment of fines - Methylene blue test*

EN 933-10, *Tests for geometrical properties of aggregates — Part 10: Assessment of fines - Grading of filler aggregates (air jet sieving)*

EN 1097-5, *Tests for mechanical and physical properties of aggregates — Part 5: Determination of the water content by drying in a ventilated oven*

EN 13639, *Determination of total organic carbon in limestone*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp/>

— IEC Electropedia: available at <https://www.electropedia.org/>

3.1

pozzolanic properties

propensity of a material to react with calcium hydroxide (Ca(OH)₂) and water at ambient temperature to form calcium silicate and calcium aluminate hydrates with cementitious properties that enable to obtain or enhance specific concrete properties