ICS 81.060.30 SLOVENSKÁ TECHNICKÁ NORMA Marec 2026

STN	**Jemná keramika (špeciálna keramika, špeciálna technická keramika) Metódy chemickej analýzy nečistôt v práškoch oxidu hlinitého s použitím emisnej spektrometrie s indukčne viazanou plazmou a optickou vrstvou (ISO 3169: 2023)**	**STN EN ISO 3169** 72 7565

Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods for chemical analysis of impurities in aluminium oxide powders using inductively coupled plasma-optical emission spectrometry (ISO 3169:2023)

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/26

Obsahuje: EN ISO 3169:2025, ISO 3169:2023

Oznámením tejto normy sa ruší
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EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN ISO 3169

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English Version

Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods for chemical analysis of impurities in aluminium oxide powders using inductively coupled plasma-optical emission spectrometry (ISO 3169:2023)

Céramiques techniques - Méthodes d'analyse chimique des impuretés contenues dans les poudres d'oxyde d'aluminium à l'aide de la spectrométrie d'émission optique par plasma à couplage inductif (ISO 3169:2023)

Hochleistungskeramik - Verfahren zur chemischen Analyse von Verunreinigungen in Aluminiumoxidpulvern mittels optischer Emissionsspektrometrie mit induktiv gekoppeltem Plasma (ISO 3169:2023)

This European Standard was approved by CEN on 24 November 2025.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 28 January 2026.

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European foreword

The text of ISO 3169:2023 has been prepared by Technical Committee ISO/TC 206 "Fine ceramics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 3169:2025 by Technical Committee CEN/TC 184 "Advanced technical ceramics" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

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.

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Endorsement notice

The text of ISO 3169:2023 has been approved by CEN as EN ISO 3169:2025 without any modification.

INTERNATIONAL STANDARD

ISO 3169

First edition
2023-01

Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of impurities in aluminium oxide powders using inductively coupled plasma-optical emission spectrometry

Céramiques techniques (céramiques avancées, céramiques techniques avancées) — Méthodes d'analyse chimique des impuretés contenues dans les poudres d'oxyde d'aluminium à l'aide de la spectrométrie d'émission optique par plasma à couplage inductif

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Foreword

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This document was prepared by Technical Committee ISO/TC 206, *Fine ceramics*.

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INTERNATIONAL STANDARD **ISO 3169:2023(E)**

Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of impurities in aluminium oxide powders using inductively coupled plasma-optical emission spectrometry

1 Scope

This document specifies methods for the chemical analysis of impurities present in aluminium oxide powders used as a raw material for fine ceramics.

Aluminium oxide powders are decomposed by acid pressure decomposition, acid decomposition or alkali fusion. The calcium, chromium, copper, iron, magnesium, manganese, potassium, silicon, sodium, titanium, zinc and zirconium contents in the test solution are determined by an inductively coupled plasma-optical emission spectrometer (ICP-OES).

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.

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 6353-2, *Reagents for chemical analysis — Part 2: Specifications — First series*

ISO 8656-1, *Refractory products — Sampling of raw materials and unshaped products — Part 1: Sampling scheme*