

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
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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

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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)

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EN ISO 3169:2025 (E)

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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.

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Endorsement notice

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**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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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*

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