
Preskušanje keramičnih surovin in keramičnih materialov - Neposredno določevanje masnih frakcij nečistoč v prahu in zrnih silicijevega karbida z optično emisijsko spektroskopijo in induktivno sklopljeno plazmo z elektrotermičnim izparevanjem (ETV-ICP-OES)

Testing of ceramic raw materials and ceramic materials - Direct determination of mass fractions of impurities in powders and granules of silicon carbide by inductively coupled plasma optical emission spectrometry with electrothermal vaporisation (ETV-ICP-OES)

Prüfung keramischer Roh- und Werkstoffe - Direkte Bestimmung der Massenanteile von Spurenverunreinigungen in pulver- und kornförmigem Siliciumcarbid mittels optischer Emissionsspektroskopie mit induktiv gekoppeltem Plasma und elektrothermischer Verdampfung (ETV-ICP-OES)

Essai des matières premières céramiques et des matériaux céramiques - Détermination directe des fractions massiques d'impuretés dans les poudres et les granulés de carbure de silicium par spectroscopie d'émission optique avec plasma induit par haute fréquence avec vaporisation électrothermique (ETV-ICP-OES)

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English Version

**Testing of ceramic raw materials and ceramic materials -
Direct determination of mass fractions of impurities in
powders and granules of silicon carbide by inductively
coupled plasma optical emission spectrometry with
electrothermal vaporisation (ETV-ICP-OES)**

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matériaux céramiques - Détermination directe des
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Prüfung keramischer Roh- und Werkstoffe - Direkte
Bestimmung der Massenanteile von
Spurenverunreinigungen in pulver- und kornförmigem
Siliciumcarbid mittels optischer
Emissionsspektroskopie mit induktiv gekoppeltem
Plasma und elektrothermischer Verdampfung (ETV-
ICP-OES)

This European Standard was approved by CEN on 27 July 2025.

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European foreword

This document (EN 15991:2025) has been prepared by Technical Committee CEN/TC 187 “Refractory products and materials”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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This document supersedes EN 15991:2015.

EN 15991:2025 includes the following significant technical changes with respect to EN 15991:2015:

- Clause 2 and Clause 3 have been added, noting that they neither add any normative references nor terms and definitions to the document;
- Clause 4 adds significantly more detail about the analysis and process;
- Clause 5 provides additional information on the spectrometry methodology;
- Annex B, Table B.1 provides additional information on the limits of determination.

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