



SLOVENSKI STANDARD
SIST EN ISO 4491-2:2023

01-julij-2023

**Kovinski praški - Ugotavljanje deleža kisika z redukcijskimi metodami - 2. del:
Izguba mase pri redukciji vodika (izguba vodika) (ISO 4491-2:2023)**

Metallic powders - Determination of oxygen content by reduction methods - Part 2: Loss of mass on hydrogen reduction (hydrogen loss) (ISO 4491-2:2023)

Metallpulver - Bestimmung des Sauerstoffanteils durch Reduktionsverfahren - Teil 2: Masseverlust durch Reduktion (mit Wasserstoff) (ISO 4491-2:2023)

Poudres métalliques - Dosage de l'oxygène par les méthodes de réduction - Partie 2: Perte de masse par réduction dans l'hydrogène (perte dans l'hydrogène) (ISO 4491-2:2023)

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77.160

Metalurgija prahov

Powder metallurgy

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English Version

Metallic powders - Determination of oxygen content by reduction methods - Part 2: Loss of mass on hydrogen reduction (hydrogen loss) (ISO 4491-2:2023)

Poudres métalliques - Dosage de l'oxygène par les méthodes de réduction - Partie 2: Perte de masse par réduction dans l'hydrogène (perte dans l'hydrogène) (ISO 4491-2:2023)

Metallpulver - Bestimmung des Sauerstoffanteils durch Reduktionsverfahren - Teil 2: Masseverlust durch Reduktion mit Wasserstoff (ISO 4491-2:2023)

This European Standard was approved by CEN on 16 April 2023.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 4491-2:2023) has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" in collaboration with CCMC.

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of an identical text or by endorsement, at the latest by October 2023, and conflicting national standards shall be withdrawn at the latest by October 2023.

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 ISO 4491-2:1999.

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Endorsement notice

The text of ISO 4491-2:2023 has been approved by CEN as EN ISO 4491-2:2023 without any modification.

INTERNATIONAL
STANDARD

ISO
4491-2

Third edition
2023-04

**Metallic powders — Determination
of oxygen content by reduction
methods —**

**Part 2:
Loss of mass on hydrogen reduction
(hydrogen loss)**

*Poudres métalliques — Dosage de l'oxygène par les méthodes de
réduction —*

*Partie 2: Perte de masse par réduction dans l'hydrogène (perte dans
l'hydrogène) 4491-2:2023*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 119 *Powder metallurgy*, Subcommittee SC 2, *Sampling and testing methods for sintered metal materials (excluding hardmetals)*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS M11, *Powder metallurgy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 4491-2:1997), which has been technically revised.

The main changes compared to the previous edition are as follows:

- adding of precision statement.

A list of all parts in the ISO 4491 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.