

<b>STN</b>	<b>Spekané kovové materiály, okrem spekaných karbidov Priepustné spekané kovové materiály Stanovenie hustoty, obsahu oleja a povrchovej pórovitosti (ISO 2738: 2026)</b>	<b>STN EN ISO 2738</b>  42 0888
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Sintered metal materials, excluding hardmetals - Permeable sintered metal materials - Determination of density, oil content and open porosity (ISO 2738:2026)

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. 03/26

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EUROPEAN STANDARD

EN ISO 2738

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2026

ICS 77.160

Supersedes EN ISO 2738:1999

English Version

Sintered metal materials, excluding hardmetals -  
Permeable sintered metal materials - Determination of  
density, oil content and open porosity (ISO 2738:2026)

Matériaux métalliques frittés, à l'exclusion des métaux-  
durs - Matériaux métalliques frittés perméables -  
Détermination de la masse volumique, de la teneur en  
huile et de la porosité ouverte (ISO 2738:2026)

Sintermetalle, ausgenommen Hartmetalle -  
Durchlässige Sintermetalle - Bestimmung der Dichte,  
des Tränkstoffgehaltes und der offenen Porosität (ISO  
2738:2026)

This European Standard was approved by CEN on 5 January 2026.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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**EN ISO 2738:2026 (E)**

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## **European foreword**

This document (EN ISO 2738:2026) 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of an identical text or by endorsement, at the latest by July 2026, and conflicting national standards shall be withdrawn at the latest by July 2026.

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## **Endorsement notice**

The text of ISO 2738:2026 has been approved by CEN as EN ISO 2738:2026 without any modification.



# International Standard

**ISO 2738**

## **Sintered metal materials, excluding hardmetals — Permeable sintered metal materials — Determination of density, oil content and open porosity**

*Matériaux métalliques frittés, à l'exclusion des métaux-durs —  
Matériaux métalliques frittés perméables — Détermination de la  
masse volumique, de la teneur en huile et de la porosité ouverte*

**Fourth edition  
2026-01**

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**ISO 2738:2026(en)****Foreword**

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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 document 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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 119, *Powder metallurgy*, Subcommittee SC 3, *Sampling and testing methods for sintered metal materials (excluding hardmetals)*, in collaboration with the European Committee for Standardization (CEN), in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 2738:1999), which has been technically revised.

The main change is as follows:

- [Clause 10](#) "Precision" revised.

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](http://www.iso.org/members.html).

# Sintered metal materials, excluding hardmetals — Permeable sintered metal materials — Determination of density, oil content and open porosity

## 1 Scope

This document specifies methods for determining the density (dry density or fully impregnated density), oil content (related to test piece volume and related to open porosity) and open porosity of permeable sintered metal materials.

This document applies in particular to porous metal bearings and to structural parts produced by pressing and sintering metal powders.

## 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 758, *Liquid chemical products for industrial use — Determination of density at 20 degrees C*

ISO 13944, *Lubricated metal-powder mixes — Determination of lubricant content — Soxhlet extraction method*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**