

Powder metallurgical materials and products —

Part 3: Methods of testing sintered metal materials and products, excluding hardmetals —

Section 3.2 Determination of density, oil content and open porosity

**[ISO title: Permeable sintered metal materials — Determination
of density, oil content and open porosity]**

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This British Standard, having been prepared under the direction of the Iron and Steel Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 October 1988

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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National foreword

This Section of BS 5600 has been prepared under the direction of the Iron and Steel Standards Committee. It is identical with ISO 2738:1987 *“Permeable sintered metal materials — Determination of density, oil content and open porosity”* published by the International Organization for Standardization (ISO).

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “Section of BS 5600”.

Cross-references

International Standard	Corresponding British Standard
ISO 3448:1975	BS 4231:1982 <i>Classification for viscosity grades of industrial liquid lubricants</i> (Identical)
ISO 3507:1976	BS 733 <i>Pyknometers</i> Part 1:1983 <i>Specification</i> (Identical)
ISO 4495:1978	BS 5600 <i>Powder metallurgical materials and products</i> Section 2.11:1980 <i>Determination of the lubricant content of lubricated metallic powders: Soxhlet extraction method</i> (Identical)

The Technical Committee has reviewed the provisions of ISO 758, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard to ISO 758 is BS 4522 *“Method for the determination of density of liquids at 20 °C”*.

Additional information. This Section is one of a series of Sections and Subsections that comprise BS 5600. The contents of BS 5600 are given in Section 1.1. Section 1.2 is a glossary of technical terms that have particular application in the powder metallurgical industry and which are used in the Sections and Subsections of this British Standard.

Textual error. When adopting the text of the International Standard, the textual error given below was discovered. It has been marked in the text and has been reported to ISO/TC119/SC3 in a proposal to amend the text of the International Standard.

7.4.1 Full impregnation (for determination of the open porosity)

In the second sentence of the first paragraph delete “between 1 and 10 Mpa” and substitute “between 0,1 bar (10⁴ Pa) and 0,01 bar (10³ Pa)”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

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This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.