

Metallic and other non-organic coatings — Review of methods of measurement of thickness

The European Standard EN ISO 3882:1994 has the status of a
British Standard

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The preparation of this British Standard was entrusted by the Surface Coatings (other than Paints) Standards Committee (SRC/-) to Technical Committee SRC/14, upon which the following bodies were represented:

- Aluminium Federation
- Association of Manufacturers of Domestic Electrical Appliances
- Association of Metal Sprayers
- British Anodising Association
- British Industrial Fasteners Federation
- British Jewellers' Association
- British Telecommunications plc
- City of London Polytechnic
- Department of Trade and Industry (National Physical Laboratory)
- Institute of Metal Finishing
- Institution of Corrosion Science and Technology
- Metal Finishing Association
- Ministry of Defence
- NDT Trade Association
- Society of Motor Manufacturers and Traders Limited

This British Standard, having been prepared under the direction of the Surface Coatings (other than Paints) Standards Committee, was published under the authority of the Board of BSI and comes into effect on 27 February 1987

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First published January 1978
First revision February 1987

The following BSI references relate to the work on this standard:
Committee reference SRC/14
Draft for comment 84/55039 DC

ISBN 0 580 15662 1

Amendments issued since publication

Amd. No.	Date of issue	Comments
8496	April 1995	Indicated by a sideline in the margin

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National foreword

This revised Part of BS 5411 has been prepared under the direction of the Surface Coatings (other than Paints) Standards Committee. It is identical with the 1986 edition of ISO 3882 “*Metallic and other non-organic coatings — Review of methods of measurement of thickness*” which was prepared by Technical Committee TC 107, Metallic and other non-organic coatings, of the International Organization for Standardization (ISO), with the active participation and approval of the UK.

In 1994 the European Committee for Standardization (CEN) accepted ISO 3882:1986 as European Standard EN ISO 3882:1994. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 3882 and any reference to BS 5411-2 should be read as a reference to BS EN ISO 3882.

This revision which supersedes BS 5411-2:1978, takes into account developments in methods for the measurement of coating thickness which have occurred since the 1978 publication was prepared. As a consequence, the 1978 publication is withdrawn.

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 “Part of BS 5411”.

Cross-references

International Standards	Corresponding British Standards
	BS 5411 <i>Methods of test for metallic and related coatings</i>
ISO 1463:1982	Part 5:1984 <i>Measurement of local thickness of metal and oxide coatings by the microscopical examination of cross-sections</i> (Identical)
ISO 2064:1980	Part 1:1980 <i>Definitions and conventions concerning the measurement of thickness</i> (Identical)
ISO 2128:1976	BS 6161 <i>Methods of test for anodic oxidation coatings on aluminium and its alloys</i> Part 2:1981 <i>Determination of thickness of anodic oxide coatings: non-destructive measurement by split-beam microscope</i> (Identical)
	BS 5411 <i>Methods of test for metallic and related coatings</i>
ISO 2177:1985	Part 4:1986 <i>Coulometric method for the measurement of coating thickness</i> (Identical)
ISO 2178:1982	Part 11:1984 <i>Measurement of coating thickness of non-magnetic metallic and vitreous or porcelain enamel coatings on magnetic basis metals: magnetic method</i> (Identical)
ISO 2360:1982	Part 3:1984 <i>Eddy current method for measurement of coating thickness of non-conductive coatings on non-magnetic basis metals</i> (Identical)

International Standards	Corresponding British Standards
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ISO 2361:1982	Part 9:1984 <i>Measurement of coating thickness of electrodeposited nickel coatings on magnetic and non-magnetic substrates: magnetic method</i> (Identical)
ISO 3497:1976	Part 8:1976 <i>Measurement of coating thickness of metallic coatings: X-ray spectrometric methods</i> (Identical)
ISO 3543:1981	Part 12:1981 <i>Beta backscatter method for measurement of thickness</i> (Identical)
ISO 4518:1980	Part 7:1981 <i>Profilometric method for measurement of coating thickness</i> (Identical)

There is no corresponding British Standard to ISO 3868, to which reference is made in 5.4 for information only; this does not invalidate the use of this Part of BS 5411.

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

This document comprises a front cover, an inside front cover, pages i to iv, the EN ISO title page, pages 2 to 8, an inside back cover and a back cover.

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.