

Metallic coatings on metallic substrates — Electrodeposited and chemically deposited coatings — Review of methods available for testing adhesion

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British Standard

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- Bnf Metals Technology Centre*
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- British Jewellery and Giftware Federation Ltd.
- British Metal Finishing Suppliers' Association*
- British Steel Industry
- Chemical Industries Association
- Electricity Supply Industry in England and Wales
- Engineering Equipment Users' Association
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- Vitreous Enamel Development Council
- Zinc Development Association

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Association of Manufacturers of Domestic Electrical Appliances
- British Anodising Association
- British Industrial Fasteners' Federation
- City of London Polytechnic
- Department of Industry, National Physical Laboratory
- NUT Trade Association
- Coopted experts

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 Executive Board and comes into effect on 31 December 1980

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National foreword

This Part of BS 5411 has been prepared under the direction of the Surface Coatings (other than Paints) Standards Committee in order to provide a review of methods for checking the adhesion of electrodeposited and chemically deposited coatings. It is a revision of BS 5411-10:1977, which is now withdrawn. It does not give the test methods, as applicable to individual coatings, in full detail but is intended to provide a comprehensive list of methods that are suitable for the purpose of testing adhesion. It is identical with ISO 2819:1980 “*Metallic coatings on metallic substrates-Electrodeposited and chemically deposited coatings — Review of methods for testing adhesion*”, which was prepared with the active participation and approval of the United Kingdom, by Sub-committee 2, Methods of inspection and co-ordination of test methods, of Technical Committee 107, Metallic and other non-organic coatings, of the International Organization for Standardization (ISO).

In 1994 the European Committee for Standardization (CEN) accepted ISO 2819:1980 as European Standard EN ISO 2819:1994. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 2819:1995 and any reference to BS 5411-10 should be read as a reference to BS EN ISO 2819.

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

The comma has been used throughout 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 “British Standard”.

Cross-reference

International Standard	Corresponding British Standard
ISO 1520:1973	BS 3900 <i>Methods of test for paints</i> Part E4:1976 <i>Cupping test</i> (Technically equivalent)

Additional information. Some clauses of this standard contain sentences or phrases that can be read as performance requirements and which are therefore out of place in a standard that specifies test methods only. It is expected that these requirements will be deleted from the International Standard on its next revision. The texts concerned are:

- a) in 2.4, the 3rd sentence of the final paragraph:
“The adhesion of the coating shall be such that there is no evidence of detachment of the coating”;
- b) in 2.5, the 3rd sentence:
“No detachment of the coating shall occur”;
- c) in 2.11, the final phrase of the 2nd sentence:
“...but no detachment of the coating from the basis metal shall be visible”;
- d) in 2.12, the final sentence of the 3rd paragraph:
“No separation, for example by blistering, flaking or exfoliation, of the coating from the basis metal shall occur”.

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.

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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.