

Metallic coatings on metallic substrates —

Electrodeposited and chemically deposited coatings —

Review of methods available for testing adhesion

The European Standard EN ISO 2819: 1994 has the status of a British Standard



NO COPYING IN ANY FORM WITHOUT WRITTEN PERMISSION FROM BSI

BS 5411: Part 10: 1981

Contents	_		Page
	Page		· ugo
National foreword I Cooperating organizations	nside front cover Back cover	Tables 1. Thermal shock test temperatures 2. Adhesion tests appropriate for various	3
Methods		coating metals	4
Scope and field of application	1		
2. Methods of test	1	Figure Fixture for peening test specimen	6
Annex			
Determination of adhesion of silver dep (100 to 600 µm)—shot-peening method			

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 It is a revision of BS 5411 : Part 10 : 1977, which is now withdrawn.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 nonorganic 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: Part 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 Methods of test for paints Part E4: 1976 Cupping test	
	(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';

Say 17 - 2 commence of the same and the same and the same and

- (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

98880

CEN EN*ISO*2819 94 ■ 3404589 0093136 080 ■

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 2819

October 1994

ICS 25.220.40

Descriptors: Metal coatings, electrodeposited coatings, chemical plating, tests, adhesion tests, adhesion, mechanical tests, quality control

English version

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

(ISO 2819: 1980)

Revêtements métalliques sur bases métalliques — Dépôts électrolytiques et dépôts par voie chimique — Liste des différentes méthodes d'essai d'adherence (ISO 2819 : 1980)

Metallische Überzüge auf metallische Grundwerkstoffen — Galvanische und chemische Überzüge — Überblick über Methoden der Haftfestigkeitsprüfung (ISO 2819: 1980)

This European Standard was approved by CEN on 1994-10-26. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member. This European Standard exists in three official versions (English, French,

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

© 1994 Copyright reserved to CEN members

Ref. No. EN ISO 2819: 1994 E