

Metallic and non-organic coatings on metallic substrates — Saline droplets corrosion test (SD test)

The European Standard EN ISO 4536:1994 has the status of a British Standard

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Surface Coatings (other than Paints) Standards Committee (SRC/-) to Technical Committee SRC/15, upon which the following bodies were represented:

- Aluminium Federation
- Association of Manufacturers of Domestic Electrical Appliances
- British Anodising Association
- British Industrial Fasteners Federation
- Electronic Engineering Association
- Institute of Metal Finishing
- Metal Finishing Association
- Ministry of Defence
- NDT Trade Association
- Society of Motor Manufacturers and Traders Limited
- Telecommunication Engineering and Manufacturing Association (TEMA)
- Zinc Development Association

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 31 December 1986

© BSI 03-2000

The following BSI references relate to the work on this standard:
Committee reference SRC/15
Draft for comment 76/54496 DC

ISBN 0 580 15579 X

Amendments issued since publication

Amd. No.	Date of issue	Comments
8477	July 1995	Indicated by a sideline in the margin

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
0 Introduction	3
1 Scope and field of application	3
2 References	3
3 Principle	3
4 Test solution	3
5 Apparatus	4
6 Test specimens	4
7 Method of exposure of test specimens	4
8 Procedure	5
9 Duration of tests	5
10 Treatment of test specimens after test	5
11 Evaluation of results	5
12 Test report	5
Annex ZA (normative) Normative references to international publications with their relevant European publications	8
Figure 1 — Hand-operated atomizer	6
Figure 2 — Photographs illustrating the intensity of spraying required (actual size)	7
Table — Composition of test solution	4
Publications referred to	Inside back cover

National foreword

This Part of BS 5466 has been prepared under the direction of the Surface Coatings (other than Paints) Standards Committee. It is identical with ISO 4536:1985 “*Metallic and non-organic coatings on metallic substrates — Saline droplets corrosion test (SD test)*”, which has been prepared, with the active participation of the United Kingdom, by Subcommittee 107, Metallic and other non-organic coatings, of the International Organization for Standardization (ISO). It is intended to publish further Parts as the international work progresses.

In 1994 the European Committee for Standardization (CEN) accepted ISO 4536:1985 as European Standard EN ISO 4536:1994. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 4536:1995 and any reference to BS 5466-9 should read as a reference to BS EN ISO 4536:1995.

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.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “Part of BS 5466”.

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.

In British Standards it is current practice to use the symbol “L” for litre rather than “l”, and to use the spelling “sulphur” etc., instead of “sulfur”, etc.

Cross-references

International Standard	Corresponding British Standard
ISO 4540:1980	BS 5466 <i>Methods for corrosion testing of metallic coatings</i> Part 6:1982 <i>Rating of results of corrosion testing on electroplated coatings cathodic to the substrate</i> (Identical)

The Technical Committee has reviewed the provisions of ISO 483:1966, to which reference is made in 5.1, and has decided that it is acceptable for use in conjunction with this standard. The British Standard related to ISO 483 is BS 3718:1964 “*Laboratory humidity ovens (non-injection type)*”. When used as described in 5.1, BS 3718 will give the same results as ISO 483 and is therefore suitable for use in this connection.

The Technical Committee has also reviewed the provisions of ISO 1462:1973, to which reference is made in clause 11, and has decided that it is acceptable for use in conjunction with this standard. The British Standard related to ISO 1462 is BS 3745:1970 “*The evaluation of results of accelerated corrosion tests on metallic coatings*”. When used as described in clause 9, BS 3745 will give the same results as ISO 1462 and is therefore suitable for use in this connection.

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 and ii, 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.

ICS 25.220.30; 25.220.40

Descriptors: Coatings, metal coatings, substrates, metals, tests, corrosion tests

English version

Metallic and non-organic coatings on metallic substrates — Saline droplets corrosion test (SD test)

(ISO 4536:1985)

Revêtements métalliques et non organiques sur bases métalliques — Essai de corrosion aux gouttelette salines (Essai SD)
(ISO 4536:1985)

Metallische und anorganische Überzüge auf metallischen Grundwerkstoffen
Salztröpfchen-Korrosionsprüfung (SD-Versuch)
(ISO 4536:1985)

This European Standard was approved by CEN on 1994-10-03. 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, 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

© 1995 Copyright reserved to CEN members