



BRITISH STANDARD

**BS EN ISO
4540 : 1995**

**Metallic coatings —
Coatings cathodic to the
substrate —
Rating of electroplated test
specimens subjected to
corrosion tests**

The European Standard EN ISO 4540 : 1995 has the status of a
British Standard

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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 4540-1980 'Metallic coatings — Coatings cathodic to the substrate — Rating of electroplated test specimens subjected to corrosion tests', prepared, with the active participation and approval of the United Kingdom, by Technical Committee 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 1995 the European Committee for Standardization (CEN) accepted ISO 4540 : 1980 as European Standard EN ISO 4540 : 1995. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 4540 and any reference to BS 5466 : Part 6 should be read as a reference to BS EN ISO 4540.

This British Standard gives a method of assessing the extent of corrosion of metal-coated articles exposed to natural environments. It provides for separate assessment of corrosion of the coating and of the substrate metal.

The method may also be used to assess corrosion occurring during accelerated corrosion tests. However, in many cases where accelerated corrosion tests are used for acceptance testing for quality control purposes only, corrosion of the substrate metal requires assessment and for these purposes the method specified in this British Standard may be unnecessarily complex and time consuming. An alternative rating system for metal-coated articles subjected to accelerated corrosion tests, which assesses substrate metal corrosion only in a more simple manner, is available in BS 3745 'The evaluation of results of accelerated corrosion tests on metallic coatings' and this other method should be used in appropriate cases. The method given in BS 3745 is intended for acceptance purposes in the corrosion resistance requirements clauses of many individual product standards for coated metals.

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 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-references

International standard	Corresponding British Standard
	BS 5466 Methods for corrosion testing of metallic coatings
ISO 3768-1976	Part 1 : 1977 Neutral salt spray test (NSS test) (Identical)
ISO 3769-1976	Part 2 : 1977 Acetic acid salt spray test (ASS test) (Identical)
ISO 3770-1976	Part 3 : 1977 Copper-accelerated acetic acid salt spray test (CASS test) (Identical)
ISO 4541-1978	Part 5 : 1979 Corrodokote test (CORR test) (Identical)

