



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1403:1999

ICS 25.220.40

**CORROSION PROTECTION OF METALS -
ELECTRODEPOSITED COATINGS - METHOD
OF SPECIFYING GENERAL REQUIREMENTS**

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Descriptors: corrosion prevention, metals, coatings, electrodeposition, classifications, codes, heat treatment, thickness, specifications

English version

Corrosion protection of metals - Electrodeposited coatings - Method of specifying general requirements

Protection contre la corrosion des métaux - Revêtements
électrolytiques - Méthode de spécification des prescriptions
générales

Korrosionsschutz von Metallen - Galvanische Überzüge -
Verfahren für die Spezifizierung allgemeiner Anforderungen

This European Standard was approved by CEN on 18 July 1998.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Contents

| | Page |
|---|------|
| Foreword | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Definitions | 4 |
| 4 Information to be supplied by the purchaser | 5 |
| 5 Designation | 6 |
| 6 Thickness | 8 |
| 7 Inspection | 9 |
| Annex A (informative) Designation | 10 |
| Annex B (informative) Service condition number | 11 |
| Annex C (normative) Supplementary treatments other than conversion coatings | 12 |

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 262 “Metallic and other inorganic coatings”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1999 and conflicting national standards shall be withdrawn at the latest by February 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard establishes a method of specifying general requirements for electrodeposited coatings applied to metallic materials for corrosion protection.

This European Standard is for use in conjunction with other European Standards which specify the electrodeposited coating required, e.g., prEN 12329 “Corrosion protection of metals — Electrodeposited coatings of zinc with supplementary treatment on iron or steel”.

This European Standard does not specify requirements for the condition, finish or surface roughness of the basis metal prior to the coating process.

This European Standard is not applicable to coatings on sheet (or coil), strip or wire in the unfabricated form.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 1463 : 1994 Metallic and oxide coatings — Measurement of coating thickness – Microscopical method (ISO 1463 : 1982)

ISO 4519 : 1980 Electrodeposited metallic coatings and related finishes — Sampling procedures for inspection by attributes

3 Definitions

For the purposes of this European Standard, the definitions given in ISO 2064 : 1996 apply. These are repeated here for the sake of convenience.

3.1 significant surface: The part of the article covered or to be covered by the coating and for which the coating is essential for serviceability and/or appearance and where the coating must meet all of the specified requirements. [ISO 2064 : 1996]

3.2 measuring area: The area of the significant surface over which a single measurement is made.

“Measuring area” for the following methods is defined as:

- a) for analytical methods, the area over which the coating is removed;
- b) for the anodic dissolution method, the area enclosed by the sealing ring of the cell;
- c) for the microscopical method, the field of view at a specified magnification (see ISO 1463);

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