



Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

## ILNAS-EN ISO 12683:2004

### **Mechanically deposited coatings of zinc - Specification and test methods (ISO 12683:2004)**

Dépôts de zinc par voie mécanique  
(matoplastie) - Spécifications et  
méthodes de contrôle (ISO 12683:2004)

Durch mechanisches Plattieren  
aufgebrachte Zinküberzüge -  
Anforderungen und Prüfverfahren (ISO  
12683:2004)

11/2004



## National Foreword

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This European Standard was approved by CEN on 24 June 2004.

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## Foreword

This document (EN ISO 12683:2004) has been prepared by Technical Committee CEN/TC 262 “Metallic and other inorganic coatings”, the Secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 107 “Metallic and other inorganic coatings”.

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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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

## 1 Scope

This document specifies the requirements for coatings of zinc that have been mechanically deposited on to fabricated metal articles to protect them from corrosion. It also describes the related test methods.

NOTE Annex A describes the process of applying a metal coating that is called mechanical deposition. In this instance the metal applied is zinc.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 1463, *Metallic and oxide coatings - Measurement of coating thickness - Microscopical method (ISO 1463:2003)*

EN ISO 2064:2000, *Metallic and other inorganic coatings - Definitions and conventions concerning the measurement of thickness (ISO 2064:1996)*

EN ISO 2177, *Metallic coatings - Measurement of coating thickness - Coulometric method by anodic dissolution (ISO 2177:2003)*

EN ISO 2178, *Non-magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic method (ISO 2178:1982)*

EN ISO 3497, *Metallic coatings - Measurement of coating thickness - X-ray spectrometric methods (ISO 3497:2000)*

EN ISO 9220, *Metallic coatings - Measurement of coating thickness - Scanning electron microscope method (ISO 9220:1988)*

EN ISO 10111, *Metallic and other inorganic coatings - Measurement of mass per unit area - Review of gravimetric and chemical analysis methods (ISO 10111:2000)*

ISO 2079:1981, *Surface treatment and metallic coatings — General classification of terms*

ISO 2080:1981, *Electroplating and related processes — Vocabulary*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptable quality level (AQL) for lot-by-lot inspection*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 9587, *Metallic and other inorganic coatings — Pretreatments of iron or steel to reduce the risk of hydrogen embrittlement*

ISO 10474, *Steel and steel products — Inspection documents*

ISO 10587, *Metallic and other inorganic coatings — Test for residual embrittlement in metallic-coated and uncoated externally threaded articles and rods — Inclined wedge method*