SLOVENSKI STANDARD
oSIST prEN ISO 1460:2020

01-maj-2020

Kovinske prevleke - Prevleke na železnem materialu, nanesene z vročim pocinkanjem - Gravimetrijski postopki za ugotavljanje mase nanosa na enoto površine (ISO/DIS 1460:2020)

Metallic coatings - Hot dip galvanized coatings on ferrous materials - Gravimetric determination of the mass per unit area (ISO/DIS 1460:2020)

Metallische Überzüge - Feuerverzinken auf Eisenwerkstoffen - Gravimetrisches Verfahren zur Bestimmung der flächenbezogenen Masse (ISO/DIS 1460:2020)

Revêtements métalliques - Revêtements de galvanisation à chaud sur métaux ferreux - Détermination gravimétrique de la masse par unité de surface (ISO/DIS 1460:2020)

Ta slovenski standard je istoveten z: **prEN ISO 1460**

ICS:

25.220.40	Kovinske prevleke	Metallic coatings

oSIST prEN ISO 1460:2020 **en**

DRAFT INTERNATIONAL STANDARD

ISO/DIS 1460

ISO/TC **107**/SC **4** Secretariat: **BSI**

Voting begins on: **2020-03-19**

Voting terminates on: **2020-06-11**

Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area

Revêtements métalliques — Revêtements de galvanisation à chaud sur métaux ferreux — Détermination gravimétrique de la masse par unité de surface

ICS: 25.220.40

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 1460:2020(E)

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 4, *Hot dip coatings (galvanized, etc.)*.

This third edition cancels and replaces the second edition (ISO 1460:1992), which has been technically revised.

The main changes compared to the previous edition are as follows:

— density of concentrated hydrochloric acid in clause 5 has been modified from ρ = 1.19 g/ml to ρ ≥ 1.18 g/ml.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area

1 Scope

This International Standard specifies a method of determining the mass per unit area of hot dip galvanized coatings on ferrous materials.

Since an exact knowledge of the area of the surface is essential, this International Standard is mainly applicable to shapes whose areas are easy to determine. If, with heavy samples, the specifications of clause 5 cannot be met, then the hot dip galvanized coating mass has to be determined by another method.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Principle

The hot dip galvanized coating on a surface of known area is dissolved in inhibited acid and the resultant loss in mass is determined by weighing the sample before and after the coating is dissolved.

5 Stripping solution

Dissolve 3,5 g of hexamethylenetetramine in 500 ml of concentrated hydrochloric acid (ρ≥1,18 g/ml). Dilute this solution to 1 000 ml with distilled water.

6 Sampling

The method of sampling shall be agreed between the interested parties.

7 Procedure

Where necessary, the sample shall be degreased with an organic solvent that does not attack the hot dip galvanized coating and then dried.

Before stripping, the sample shall be weighed to an accuracy better than 1 % of the presumed coating mass.

The quantity of solution shall be measured so that at least 10 ml of solution are available for each square centimetre of the surface of the sample. The sample shall be completely immersed in the solution