

Irish Standard I.S. EN ISO 3613:2010

Metallic and other inorganic coatings -Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys - Test methods (ISO 3613:2010)

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Metallic and other inorganic coatings - Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys - Test methods (ISO 3613:2010)

Revêtements métalliques et autres revêtements inorganiques - Couches de conversion au chromate sur zinc, cadmium et alliages d'aluminium-zinc et de zincaluminium - Méthodes d'essai (ISO 3613:2010)

Metallische und andere anorganische Überzüge -Chromatierüberzüge auf Zink, Cadmium, Aluminium-Zinkund Zink-Aluminium-Legierungen - Prüfverfahren (ISO 3613:2010)

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Foreword

This document (EN ISO 3613:2010) has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" in collaboration with 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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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Metallic and other inorganic coatings — Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys — Test methods

Revêtements métalliques et autres revêtements inorganiques — Couches de conversion au chromate sur zinc, cadmium et alliages d'aluminium-zinc et de zinc-aluminium — Méthodes d'essai



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 3613 was prepared by Technical Committee ISO/TC 107, Metallic and other inorganic coatings.

This third edition cancels and replaces the second edition (ISO 3613:2000), which has been technically revised.

ISO 3613:2010(E)

Introduction

This International Standard specifies methods for the qualitative determination of the presence of chromate conversion coatings as well as the total chromium content of chromate conversion coatings.

The application of very thin, colourless, practically invisible chromate conversion coatings is frequently called "passivation", while the application of thicker, coloured chromate conversion coatings is called "chromating". The term "passivation" is not correct, does not comply with the ISO 2080 designation and is therefore deprecated.

Metallic and other inorganic coatings — Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys — Test methods

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1 Scope

This International Standard specifies methods for the determination of

- the presence of colourless chromate conversion coatings,
- the presence of hexavalent chromium in colourless and coloured coatings on zinc or cadmium or aluminium-zinc (mass fraction of aluminium: 55 %, within a range of 54 % to 56 % mass fraction) and zinc-aluminium (mass fraction of aluminium: 5 %) alloys,
- the total chromium content per unit area on zinc and cadmium,
- the mass per unit area of both colourless and coloured coatings,
- the satisfactory adhesion of chromate conversion coatings, and
- the quality of chromate coatings.

These methods are applicable

- to colourless and coloured chromate conversion coatings containing trivalent and hexavalent chromium in varying proportions and produced by either chemical or electrochemical processes, and
- only to chromate coatings that are free from any supplementary coatings, such as oil, water or solventbased polymers or wax.

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.

ISO 3892, Conversion coatings on metallic materials — Determination of coating mass per unit area — Gravimetric methods

ISO 4520, Chromate conversion coatings on electroplated zinc and cadmium coatings

IEC 60068-2-30, Environmental testing — Part 2-30: Tests — Test Db: Damp heat, cyclic (12 h + 12 h cycle)



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