

SLOVENSKI STANDARD **SIST EN ISO 15730:2016**

01-julij-2016

Kovinske in druge anorganske prevleke - Elektropoliranje kot sredstvo za glajenje in neaktivnost nerjavnega jekla (ISO 15730:2000)

Metallic and other inorganic coatings - Electropolishing as a means of smoothing and passivating stainless steel (ISO 15730:2000)

Metallische und andere anorganische Überzüge - Elektropolieren als Mittel zum Glätten und Passivieren von rostfreiem Stahl (ISO 15730:2000) EVIEW

Revêtements métalliques et autres revêtements inorganiques - Polissage électrolytique: procédé de brillantage (ou nivellement) et de passivation des aciers inoxydables (ISO 15730:2000) https://standards.iteh.ai/catalog/standards/sist/05853211-67f3-4042-b9dc-

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SIST EN ISO 15730:2016 en,fr,de **SIST EN ISO 15730:2016**

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 15730**

April 2016

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English Version

Metallic and other inorganic coatings - Electropolishing as a means of smoothing and passivating stainless steel (ISO 15730:2000)

Revêtements métalliques et autres revêtements inorganiques - Polissage électrolytique: procédé de brillantage (ou nivellement) et de passivation des aciers inoxydables (ISO 15730:2000) Metallische und andere anorganische Überzüge -Elektropolieren als Mittel zum Glätten und Passivieren von rostfreiem Stahl (ISO 15730:2000)

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EN ISO 15730:2016 (E)

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EN ISO 15730:2016 (E)

European foreword

The text of ISO 15730:2000 has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15730:2016 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of an identical text or by endorsement, at the latest by October 2016, and conflicting national standards shall be withdrawn at the latest by October 2016.

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INTERNATIONAL STANDARD

ISO 15730

First edition 2000-12-15

Metallic and other inorganic coatings — Electropolishing as a means of smoothing and passivating stainless steel

Revêtements métalliques et autres revêtements inorganiques — Polissage électrolytique: procédé de brillantage (ou nivellement) et de passivation des paiers inovadables.

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ISO 15730:2000(E)

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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 3.

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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International Standard ISO 15730 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 8, *Chemical conversion coatings*.

Annex A of this International Standard is for information only: D PREVIEW (standards.iteh.ai)

ISO 15730:2000(E)

Introduction

Electropolishing removes a small but finite amount of metal from the surface that, in addition to smoothing and brightening, produces a hygienically clean surface desirable for use by manufacturers of food processing and medical equipment.

In addition to improved passivation, electropolishing provides many other benefits. Some examples are surface stress relief, removal of surface carbon and oxides and reduction of friction. Hydrogen embrittlement of articles is not produced during the electropolishing process, which takes minutes to perform.

The quality of passivation depends on the type of stainless steel, the formulation of the electropolishing solution and the conditions of operation. Free iron on the surface of the stainless steel is removed resulting in improved corrosion resistance. No further chemical treatment is necessary in order to passivate the stainless steel surface. Surface smoothing obtained by electropolishing also improves passivation.

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