

SLOVENSKI STANDARD SIST EN ISO 11846:2008

01-julij-2008

Korozija kovin in zlitin - Ugotavljanje odpornosti proti interkristalni koroziji aluminijevih zlitin, ki jih je mogoče toplotno obdelati s topili (ISO 11846:1995)

Corrosion of metals and alloys - Determination of resistance to intergranular corrosion of solution heat-treatable aluminium alloys (ISO 11846:1995)

iTeh STANDARD PREVIEW

Corrosion des métaux et alliages - Détermination de la résistance a la corrosion intergranulaire des alliages d'aluminium aptes au traitement thermique de mise en solution (ISO 11846:1995) SIST EN ISO 11846:2008

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 11846

April 2008

ICS 77.060

English Version

Corrosion of metals and alloys - Determination of resistance to intergranular corrosion of solution heat-treatable aluminium alloys (ISO 11846:1995)

Corrosion des métaux et alliages - Détermination de la résistance à la corrosion intergranulaire des alliages d'aluminium aptes au traitement thermique de mise en solution (ISO 11846:1995)

Korrosion von Metallen und Legierungen - Bestimmung der Beständigkeit von lösungsgeglühten Aluminiumlegierungen gegen interkristalline Korrosion (ISO 11846:1995)

This European Standard was approved by CEN on 21 March 2008.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

The text of ISO 11846:1995 has been prepared by Technical Committee ISO/TC 156 "Corrosion of metals and alloys" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11846:2008 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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The text of ISO 11846:1995 has been approved by CEN as a EN ISO 11846:2008 without any modification.

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INTERNATIONAL STANDARD

ISO 11846

> First edition 1995-10-15

Corrosion of metals and alloys — Determination of resistance to intergranular corrosion of solution iTeh Sheat-treatable aluminium alloys

(standards.iteh.ai)

Corrosion des métaux et alliages — Détermination de la résistance à la corrosion intergranulaire des alliages d'aluminium aptes au traitement https://standards.it.dhermiques.decmise.iero.solution7B9-4813-96c1-9ca8d8c281ee/sist-en-iso-11846-2008



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.

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 EVIEW a vote.

International Standard ISO 11846 was prepared by Technical Committee i) ISO/TC 156, *Corrosion of metals and alloys*.

Annex A of this International Standard is for information onlyards/sist/6e7f448c-7f39-4813-96c1-9ca8d8c281ee/sist-en-iso-11846-2008

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International Organization for Standardization

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Corrosion of metals and alloys — Determination of resistance to intergranular corrosion of solution heat-treatable aluminium allovs

1 Scope

1.1 This International Standard specifies the methods of integranular corrosion testing for solution heat-treatable aluminium alloys without protective coatings.

i'l'eh S'l'ANDARI The sensitivity of solution heat-treatable aluminium alloys to intergranular corrosion is a function of the S.1 alloy chemical composition, method of manufacturing, solution heat treatment, quench treatment and artic 1184 rently valid International Standards. ficial precipitation hardening (ageing) treatment og/standards/sist/6e7f448c-7f39-4813-96c1-

In the naturally aged condition, the sensitivity of solution heat-treatable aluminium alloys to intergranular corrosion is a function primarily of the rate of cooling during quenching over a critical temperature range.

1.2 This International Standard is applicable to cast and wrought heat-treatable aluminium alloys in the form of castings, forgings, plates, sheets, extrusions and semi-finished or finished parts, in order to carry out comparative assessment of alloys of different grades and thickness depending on their chemical composition and other factors, and also to check the thermal processing quality of the tested materials.

The test results provide information to determine the intergranular corrosion resistance and thermal processing quality of the tested materials.

1.3 The test results cannot be regarded as absolute, because they are not applicable to all environments that can be met in service. They are best used in a relative manner, to compare the intergranular corrosion resistance of various heats of solution heattreatable aluminium alloys.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of cur-

9ca8d8c281ee/sist-en-iso-ISO1369631987, Water for analytical laboratory use ---Specification and test methods.

> ISO 8044:1989, Corrosion of metals and alloys - Vocabulary.

> ISO 8407:1991, Corrosion of metals and alloys -Removal of corrosion products from corrosion test specimens.

3 **Definitions**

For the purposes of this International Standard, the definitions given in ISO 8044 apply.

Test specimens

4.1 Sampling

Sampling should be carried out in such a manner as to provide specimens from the most typical areas of the material or the part being tested.

When controlling solution heat treatment, samples are taken from that part of the semi-finished product where cooling rates during quenching are the lowest.