Metallic and other inorganic coatings - Method for quantitative measurement of adhesion by tensile test

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13144:2003 sisaldab Euroopa standardi EN 13144:2003 ingliskeelset teksti.

Käesolev dokument on jõustatud 16.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13144:2003 consists of the English text of the European standard EN 13144:2003.

This document is endorsed on 16.05.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This European Standard decribes a quantitative method for the measurement of adhesion of metallic and other inorganic coatings applied to metallic surfaces. Typical coatings for which this European Standard applies are copper, nickel, nickel plus chromium, silver, tin, tin-nickel alloys, zinc, gold

Scope:

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ICS 25.220.40, 25.220.99

Võtmesõnad:

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13144

April 2003

ICS 25.220.40: 25.220.99

English version

Metallic and other inorganic coatings - Method for quantitative measurement of adhesion by tensile test

Revêtements métalliques et autres revêtements non organiques - Méthode de mesurage quantitatif de l'adhérence par essai de traction Metallische und andere anorganische Überzüge - Verfahren zur quantitativen Messung der Haftfestigkeit durch den Zugversuch

This European Standard was approved by CEN on 2 January 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 13144:2003) has been prepared 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 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

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

1 Scope

This European Standard describes a quantitative method for the measurement of adhesion of metallic and other inorganic coatings applied to metallic surfaces.

Typical coatings for which this European Standard applies are copper, nickel, nickel plus chromium, silver, tin, tin-nickel alloys, zinc, gold.

This European Standard does not apply to certain hot dip, spray and mechanical coatings.

The measurement is valid if the cohesion and adhesion properties of the adhesive are higher than those of the coating subjected to test.

2 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

2.1

measurement

set of operations having the object of determining a value of a quantity

NOTE The operations may be performed automatically.

[International Vocabulary of Basic and General Terms in Metrology, 1993, definition 2.1]

2.2

principle of measurement

scientific basis of a measurement

EXAMPLES

- a) the thermoelectric effect applied to the measurement of temperature;
- b) the Josephson effect applied to the measurement of electric potential difference;
- c) the Doppler effect applied to the measurement of velocity;
- d) the Raman effect applied to the measurement of the wave number of molecular vibrations

[International Vocabulary of Basic and General Terms in Metrology, 1993, definition 2.3]

2.3

method of measurement

logical sequence of operations, described generically, used in the performance of measurements

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NOTE Methods of measurement may be qualified in various ways such as:

- substitution method
- differential method
- null method.

[International Vocabulary of Basic and General Terms in Metrology, 1993, definition 2.4]