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Värvid ja lakid. Puutejäljekatse

Paints and varnishes - Print-free test

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 3678:2000 sisaldab Euroopa standardi EN ISO 3678:1995 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 3678:2000 consists of the English text of the European standard EN ISO 3678:1995.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: Standard määrab kindlaks katsemeetodi värvi, laki ja nendega seotud materjalidest katete vastupidavuse hindamiseks lihtsa empiirilise katse abil, vajutades määratud aja jooksul nailonriiet pinnale kindla survega.</p>	<p>Scope:</p>
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ICS 87.040

Võtmesõnad: katsed, kuivatamine, lakid, värvid

ICS 87.040

Descriptors: Latex, paints, varnishes, print-free test, testing.

English version

Paints and varnishes

Print-free test
(ISO 3678:1976)

Peintures et vernis; essai de séchage
«apparent complet» (ISO 3678:1976)

Lacke und Anstrichstoffe; Prüfung auf
Abdruckfestigkeit (ISO 3678:1976)

This European Standard was approved by CEN on 1995-01-05 and is identical to the ISO Standard as referred to.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 3678:1976 Paints and varnishes; print-free test,

which was prepared by ISO/TC 35 'Paints and varnishes' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 139 'Paints and varnishes' as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 1995 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of the International Standard ISO 3678:1976 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

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0 INTRODUCTION

This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. It should be read in conjunction with ISO 1512, ISO 1513, ISO 1514, ISO 2808 and ISO 3270.

This International Standard specifies an empirical test procedure for assessing the performance of a coating of paint, varnish or related product in relation to a stage of drying which is described as "print-free".

The method of test described below requires to be completed, for any particular application, by the following supplementary information. This information should be derived from the national standard or other document relating to the product under test or, where appropriate, should be the subject of agreement between the interested parties.

- a) Material and surface preparation of the substrate.
- b) Method of application of the test coating to the substrate.
- c) Thickness, in micrometres, of the dry coating and method of measurement in accordance with ISO 2808, and whether it is a single coating or a multicoat system.
- d) Duration and conditions of drying the coated panel (or conditions of stoving and ageing, if applicable) before testing.
- e) Intervals between tests where print-free time is required.
- f) Details of the grade of nylon gauze used and the force applied in carrying out the test.

NOTE — The results of tests may only be compared if the test conditions are the same for each test.

1 SCOPE AND FIELD OF APPLICATION

1.1 This International Standard specifies a method for assessing, by means of a simple empirical test, the resistance of a coat of paint, varnish or related product to imprinting by a nylon gauze under a specified force applied for a specified time.

1.2 The method may be carried out

either as a "pass/fail" test by determining whether the print-free state has been reached after a specified period of drying or, in the case of stoving coatings, after stoving and ageing under specified conditions,

or by repeating the print-free test at suitable intervals until the print-free time is obtained.

2 REFERENCES

ISO 48, *Vulcanized rubber — Determination of hardness (hardness between 30 and 85 IRHD)*.

ISO 1512, *Paints and varnishes — Sampling*.

ISO 1513, *Paints and varnishes — Examination and preparation of samples for testing*.

ISO 1514, *Paints and varnishes — Standard panels for testing*.

ISO 2808, *Paints and varnishes — Determination of film thickness*.

ISO 3270, *Paints and varnishes and their raw materials — Atmospheres for conditioning and testing*.

3 DEFINITIONS

For the purposes of this International Standard, the following definitions apply.

3.1 print-free : The state of a coating of paint or varnish when gauze of a specified grade under a specified force during a specified time does not leave on the surface an imprint, visible under normal corrected vision.

3.2 print-free state : A general term describing the state of the surface of a coating, i.e. whether "print-free" or not.

3.3 print-free time : The period of time elapsing between the moment at which a coating is applied to a prepared test panel and that at which the coating is assessed as just print-free, using the test procedure specified.

4 APPARATUS AND MATERIALS

4.1 Squares of woven monofilament polyamide gauze, minimum size 25 mm × 25 mm.

Unless otherwise specified, the gauze shall be of 0,120 mm thread diameter and of approximately 0,2 mm aperture.¹⁾ Depending upon the type of coating under test, other grades of similar construction may be used if necessary, subject to agreement between the interested parties.

¹⁾ A suitable grade of gauze is obtainable commercially. Details may be obtained from the Secretariat of ISO/TC 35 or from the ISO Central Secretariat.