

**Coil coated metals - Test methods -
Part 13: Resistance to accelerated
ageing by the use of heat**

Coil coated metals - Test methods - Part 13:
Resistance to accelerated ageing by the use of heat

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13523-13:2001 sisaldab Euroopa standardi EN 13523-13:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13523-13:2001 consists of the English text of the European standard EN 13523-13:2001.</p> <p>This document is endorsed on 19.12.2001 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: This Part of EN 13523 describes the procedure for determining the behaviour of an organic coating on a metallic substrate (flat or bent specimens) when submitted to accelerated ageing by heating at a defined temperature for a defined period of time.</p>	<p>Scope: This Part of EN 13523 describes the procedure for determining the behaviour of an organic coating on a metallic substrate (flat or bent specimens) when submitted to accelerated ageing by heating at a defined temperature for a defined period of time.</p>
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ICS 17.040.20, 25.220.60

Võtmesõnad: ageing (materials), aging, coating materials, coatings, condensation, exposure to heat, materials, metal coating, metals, paints, resistance, specification (approval), specifications, testing

ICS 17.040.20; 25.220.60

English version

Coil coated metals - Test methods - Part 13: Resistance to accelerated ageing by the use of heat

Tôles prélaquées - Méthodes d'essai - Partie 13:
Résistance au vieillissement accéléré par la chaleur

Bandbeschichtete Metalle - Prüfverfahren - Teil 13:
Beständigkeit gegen beschleunigte Alterung durch
Wärmeeinwirkung

This European Standard was approved by CEN on 18 February 2001.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN.

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 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

Annex A is normative.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This Part of EN 13523 describes the procedure for determining the behaviour of an organic coating on a metallic substrate (flat or bent specimens) when submitted to accelerated ageing by heating at a defined temperature for a defined period of time.

It is not possible to test heat resistance in such a way as to control all possible conditions of use. The aim of this test is therefore to furnish the basic test method for the effect of heat.

NOTE Special applications may require that properties other than those mentioned in this Part of EN 13523 be checked. The test(s) to be done should then be agreed between the interested parties.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13523-0 : 2001

Coil coated metals – Test methods – General introduction and list of test methods

EN 13523-2 : 2001

Coil coated metals – Test methods – Part 2: Specular gloss

EN 13523-3 : 2001

Coil coated metals – Test methods – Part 3: Colour difference – Instrumental comparison

EN 13523-7 : 2001

Coil coated metals – Test methods – Part 7: Resistance to cracking on bending (T-bend test)

EN 23270 : 1991

Paint and varnishes and their raw materials – Temperatures and humidities for conditioning and testing (ISO 3270:1984)

IEC 60454-2

Specifications for pressure-sensitive adhesive tapes for electrical purposes – Part 2: Methods of test

3 Terms and definitions

For the purposes of this standard the terms and definitions given in EN 13523-0:2001 apply.

4 Principle

A test specimen is subjected to an elevated temperature during a defined period of time. Certain physical properties of the test specimen are then compared to those of a reference specimen which has been kept during the same period of time in ambient conditions of temperature.

5 Required supplementary information

For any particular application, the test method specified in this Part of EN 13523 needs to be completed by supplementary information. The items of supplementary information are given in annex A.

6 Apparatus and materials

6.1 Air circulation oven, capable of being maintained at the chosen test temperature to $\pm 5\%$ (in °C).

6.2 Apparatus as described in EN 13523-2:2001, EN 13523-3:2001 and EN 13523-7:2001.