

Coil coated metals - Test methods - Part 5: Resistance to rapid deformation (impact test)

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Resistance to rapid deformation (impact test)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13523-5:2001 sisaldab Euroopa standardi EN 13523-5:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13523-5:2001 consists of the English text of the European standard EN 13523-5:2001.</p> <p>This document is endorsed on 18.06.2001 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 resistance to cracking and/or pick-off on rapid deformation of an organic coating on a substrate in terms of energy which the specimen will withstand.</p>	<p>Scope: This part of EN 13523 describes the procedure for determining the resistance to cracking and/or pick-off on rapid deformation of an organic coating on a substrate in terms of energy which the specimen will withstand.</p>
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Võtmesõnad: coating materials, coatings, impact testers, impact testing, metal coating, metals, paints, resistance, specification (approval), specifications, strain, testing

English version

Coil coated metals – Test methods

Part 5: Resistance to rapid deformation (impact test)

Tôles prélaquées – Méthodes d'essai –
Partie 5: Résistance à la déformation
rapide (essai de choc)

Bandbeschichtete Metalle – Prüfver-
fahren – Teil 5: Widerstandsfähigkeit
gegen schnelle Verformung (Schlag-
prüfung)

This European Standard was approved by CEN on 2000-12-30.

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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.

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CEN

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 July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

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.

Annex A is informative.

1 Scope

This Part of EN 13523 describes the procedure for determining the resistance to cracking and/or pick-off on rapid deformation of an organic coating on a metallic substrate in terms of energy which the specimen will withstand.

The thickness of the coating to be tested shall be 60 μm at maximum. The test method is not recommended for coatings of thickness greater than 60 μm due to lack of meaningful results.

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 – Part 0: General introduction and list of test methods

EN 23270:1991

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

EN ISO 6272:1994

Paints and varnishes – Falling-weight test (ISO 6272:1993)

IEC 60454-2:1994

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

3 Terms and definitions

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

4 Principle

The test specimen is deformed (indentation in the form of a dome), using a falling weight. Usually, the deformation is carried out from the reverse side but can occasionally be carried out directly on the coated surface under test.

The resistance of the coating to cracking and/or pick off is then determined.

5 Apparatus and materials

5.1 Apparatus in accordance with EN ISO 6272:1994, equipped with a hemispherical striker, of diameter 20 mm and having two scales, one of which corresponding to a mass of 1000 g, the other to a mass of 2000 g.

5.2 Magnifying glass $\times 10$.

5.3 Transparent pressure-sensitive adhesive tape, 25 mm wide, with an adhesion strength of (10 ± 1) N per 25 mm width when tested in accordance with IEC 60454-2:1994.

6 Sampling

See EN 13523-0:2001.