Metallic materials - Sheet and strip - Erichsen cupping test

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 20482:2004 sisaldab Euroopa standardi EN ISO 20482:2003 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 20482:2004 consists of the English text of the European standard EN ISO 20482:2003. This document is endorsed on 23.11.2004 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 International Standard specifies a standard test method for determining the ability of metallic sheets and strips having a thickness from 0,1 mm up to 2 mm and a width of 90 mm or greater to undergo plastic deformation in stretch forming. For materials that are thicker and when only narrower strips are available, tools of specified dimensions are provided, in which case subscripts are used, as shown in Table 1.	**Scope:** This International Standard specifies a standard test method for determining the ability of metallic sheets and strips having a thickness from 0,1 mm up to 2 mm and a width of 90 mm or greater to undergo plastic deformation in stretch forming. For materials that are thicker and when only narrower strips are available, tools of specified dimensions are provided, in which case subscripts are used, as shown in Table 1.

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Võtmesõnad:

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English version

Metallic materials
Sheet and strip
Erichsen cupping test
(ISO 20482 : 2003)

Matériaux métalliques – Tôles et bandes – Essai d'emboutissage Erichsen (ISO 20482 : 2003)

Metallische Werkstoffe – Bleche und Bänder – Tiefungsversuch nach Erichsen (ISO 20482 : 2003)

This European Standard was approved by CEN on 2003-06-02.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

International Standard
ISO 20482 : 2003 Metallic materials – Sheet and strip – Erichsen cupping test,
which was prepared by ISO/TC 164 'Mechanical testing of metals' of the International Organization for Standardization, has been adopted by Technical Committee ECISS/TC 1 'Steel – Mechanical testing', the Secretariat of which is held by AFNOR, 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 January 2004 at the latest.
In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:
Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 20482 : 2003 was approved by CEN as a European Standard without any modification.
NOTE: Normative references to international publications are listed in Annex ZA (normative).

1 Scope

This International Standard specifies a standard test method for determining the ability of metallic sheets and strips having a thickness from 0,1 mm up to 2 mm and a width of 90 mm or greater to undergo plastic deformation in stretch forming.

For materials that are thicker and when only narrower strips are available, tools of specified dimensions are provided, in which case subscripts are used, as shown in Table 1.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4287, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
through crack
crack that goes through the full thickness of the test piece and is just sufficiently wide to allow light to pass through part of its length

4 Symbols and designations

Symbols and designations used in this International Standard are illustrated by Figure 1 and given in Table 1.