

**Leather - Physical and mechanical tests -  
Determination of cold crack temperature of  
surface coatings**

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Determination of cold crack temperature of surface  
coatings

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 17233:2003 sisaldab Euroopa standardi EN ISO 17233:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2003 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 17233:2003 consists of the English text of the European standard EN ISO 17233:2002.</p> <p>This document is endorsed on 16.05.2003 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><b>Käsitlusala:</b></p> <p>This international Standard specifies a method for determining the cold crack temperature of surface coatings applied to leather. It is applicable to all leathers which have a surface coating and which can be easily flexed</p>	<p><b>Scope:</b></p> <p>This international Standard specifies a method for determining the cold crack temperature of surface coatings applied to leather. It is applicable to all leathers which have a surface coating and which can be easily flexed</p>
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ICS 59.140.30

Võtmesõnad:

**English version**

**Leather**

Physical and mechanical tests – Determination of cold crack temperature of surface coatings  
(ISO 17233 : 2002)

Cuir – Essais physiques et mécaniques – Détermination de la température de fissuration à froid des revêtements de la surface  
(ISO 17233 : 2002)

Leder – Physikalische und mechanische Prüfungen – Bestimmung der Kältebruchtemperatur von Oberflächendeckschichten  
(ISO 17233 : 2002)

This European Standard was approved by CEN on 2002-09-09.

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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

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

Foreword

International Standard  
ISO 17233 : 2002 Leather – Physical and mechanical tests – Determination of cold crack temperature of surface coatings,  
which was prepared by ISO/TC 120 ‘Leather’ of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 289 ‘Leather’, the Secretariat of which is held by UNI, 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 June 2003 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, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 17233 : 2002 was approved by CEN as a European Standard without any modification as given above.

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## 1 Scope

This International Standard specifies a method for determining the cold crack temperature of surface coatings applied to leather. It is applicable to all leathers which have a surface coating and which can be easily flexed.

## 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 2418      *Leather - Chemical, physical and mechanical and fastness tests – Sampling location*  
ISO 2419      *Leather - Physical and mechanical tests - Sample preparation and conditioning*

## 3 Principle

A strip of leather is held in a hinged apparatus in a cooled chamber at a given temperature. The hinged apparatus is closed rapidly causing the leather to be folded with the surface coating outwards. The leather is examined to determine if the surface coating has cracked.

## 4 Apparatus

- 4.1 Cooled chamber**, minimum height 500 mm and minimum width and depth 300 mm fitted with a rack or other support with circulating air capable of maintaining temperatures between +5 °C and -30 °C and of controlling the temperature to  $\pm 2$  °C at any temperature within the range. The design of the chamber shall allow free circulation of air around the test piece and holder.
- 4.2 Temperature measuring device**, readable to 1 °C and operating to at least -30 °C.
- 4.3 Hinged sample holder**, of the type and dimensions shown in Figure 1. All fixings on the inside shall be flush to the inner surface so as not to present any obstruction when the sample holder is closed.