

**Steel for packaging - Flat steel products intended for use in contact with foodstuffs, products and beverages for human and animal consumption - Tin coated steel (tinplate)**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10333:2005 sisaldab Euroopa standardi EN 10333:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.05.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10333:2005 consists of the English text of the European standard EN 10333:2005.</p> <p>This document is endorsed on 30.05.2005 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 document specifies the composition of the base steel used for the production of tinplate for use in direct contact with foodstuffs or products for human and animal consumption as well as the composition of tin used to coat it. Tinplate can be produced with or without an organic coating.</p>	<p><b>Scope:</b></p> <p>This document specifies the composition of the base steel used for the production of tinplate for use in direct contact with foodstuffs or products for human and animal consumption as well as the composition of tin used to coat it. Tinplate can be produced with or without an organic coating.</p>
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ICS 67.250

Võtmesõnad:

English version

**Steel for packaging - Flat steel products intended for use in  
contact with foodstuffs, products and beverages for human and  
animal consumption - Tin coated steel (tinplate)**

Acier pour emballage - Produits plats en acier destiné à  
entrer au contact des denrées, produits et boissons pour  
l'alimentation de l'homme et des animaux - Acier revêtu  
d'étain (fer blanc ou fer étamé)

Verpackungsblech - Flacherzeugnisse aus Stahl für die  
Verwendung in Berührung mit Lebensmitteln, Produkten  
und Getränken für den menschlichen und tierischen  
Verzehr - Verzinnter Stahl (Weißblech)

This European Standard was approved by CEN on 7 March 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 10333:2005) has been prepared by Technical Committee ECISS/TC 26 "Tinmill products - Qualities, dimensions, tolerances and specific tests", the secretariat of which is held by BSI.

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 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## 1 Scope

This document specifies the composition of the base steel used for the production of tinplate for use in direct contact with foodstuffs or products for human and animal consumption as well as the composition of tin used to coat it. Tinplate can be produced with or without an organic coating.

The main examples of use are:

- drinks cans,
- food cans,
- packaging of dry foods,
- aerosol cans.

The material should be chosen in accordance with the conditions for its use.

This standard does not apply to categories of steel other than steel for packaging intended for use in contact with foodstuffs, products or beverages for human or animal consumption.

## 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.

EN 610, *Tin and tin alloys – Ingot tin*

EN 10202:2001, *Cold reduced tinmill products – Electrolytic tinplate and electrolytic chromium/chromium oxide coated steel*

EN 10204, *Metallic products – Types of inspection documents*

EN 10334, *Steel for packaging – Flat steel products intended for use in contact with foodstuffs, products and beverages for human and animal consumption - Non-coated steel (blackplate)*

EN ISO 14284, *Steel and iron – Sampling and preparation of samples for the determination of chemical composition (ISO 14284:1996)*

## 3 Terms and definitions

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

### 3.1

#### **tinplate**

cold-rolled blackplate coated on at least one side with a layer of tin. The mass of the coating can reach up to 15.1 g/m<sup>2</sup>

### 3.2

#### **blackplate**

See EN 10334

### 3.3

#### **steel intended for use in contact with foodstuffs**

See EN 10334