

Aluminium and aluminium alloys - Forgings - Part 3: Tolerances on dimensions and form

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Tolerances on dimensions and form

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 586-3:2003 sisaldab Euroopa standardi EN 586-3:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.03.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 586-3:2003 consists of the English text of the European standard EN 586-3:2001.</p> <p>This document is endorsed on 19.03.2003 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>Käsitlusala: This part of EN 586 specifies the tolerances on dimensions and form of aluminium and aluminium alloy forgings for general engineering applications of usual design which are formed hot.</p>	<p>Scope: This part of EN 586 specifies the tolerances on dimensions and form of aluminium and aluminium alloy forgings for general engineering applications of usual design which are formed hot.</p>
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Võtmesõnad: conductivity, d, dimensional tolerances, dimensions, electrical conductivity, forgings, mechanical properties, metals, non ferrous alloys, non-ferrous alloys, non-ferrous metals, properties, specification (approval), specifications, strength of materials, testing

ICS 77.150.10

English version

Aluminium and aluminium alloys - Forgings - Part 3: Tolerances on dimensions and form

Aluminium et alliages d'aluminium - Pièces forgées - Partie
3: Tolérances sur dimensions et forme

Aluminium und Aluminiumlegierungen - Schmiedestücke -
Teil 3: Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 30 September 2001.

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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
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 132, "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

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 April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG3 "*Forgings and cast and wrought forging stock*" to prepare the following standard :

EN 586-3, *Aluminium and aluminium alloys - Forgings - Part 3 : Tolerances on dimensions and form*

This standard is part of a set of three standards. The other standards deal with :

EN 586-1, *Aluminium and aluminium alloys - Forgings - Part 1 : Technical conditions for inspection and delivery*

EN 586-2, *Aluminium and aluminium alloys - Forgings - Part 2 : Mechanical properties and additional properties*

Annex A is informative.

This standard includes a Bibliography.

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 European Standard specifies the tolerances on dimensions and form of aluminium and aluminium alloy forgings for general engineering applications of usual design concepts which are formed hot.

It applies to :

— *die forgings without machining all over :*

shape dimensions $n_{\max} \leq 2\,000$ mm, die closure dimensions $t_{\max} \leq 600$ mm and projected area $A \leq 4\,000$ cm²;

— *die forgings with machining all over :*

shape dimensions $n_{\max} \leq 6\,000$ mm and projected area $A \leq 22\,000$ cm²;

— *hand forgings :*

profile dimensions $n_{\max} \leq 8\,000$ mm.

Tolerances on forgings outside the scope of this standard or of complex design can be mutually agreed between supplier and purchaser.

Design guidelines for die and hand forgings are given in annex A.

NOTE Some of the products mentioned in this European Standard may be the subject of patent or patent applications, and their listing herein is not to be construed in any way as the granting of a licence under such patent right.

CEN/TC 132 affirms it is its policy that in the case when a patentee refuses to grant licenses on standardized standards products under reasonable and non discriminatory conditions then this product should be removed from the corresponding standard.

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 573-3, *Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 3 : Chemical composition.*

EN 573-4, *Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 4 : Form of products.*

EN 586-1, *Aluminium and aluminium alloys - Forgings - Part 1 : Technical conditions for inspection and delivery.*

EN 586-2, *Aluminium and aluminium alloys - Forgings - Part 2 : Mechanical properties and additional property requirements.*

EN 12258-1, *Aluminium and aluminium alloys - Terms and definitions - Part 1 : General terms.*