

<b>STN</b>	<b>Hliník a zliatiny hliníka Ingoty zo zliatin hliníka na pretavovanie Špecifikácie</b>	<b>STN EN 1676</b>  42 1409
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Aluminium and aluminium alloys - Alloyed ingots for remelting - Specifications

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/20

Obsahuje: EN 1676:2020

Oznámením tejto normy sa ruší  
STN EN 1676 (42 1409) zo septembra 2010

**131543**

EUROPEAN STANDARD

**EN 1676**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 77.120.10

Supersedes EN 1676:2010

English Version

## Aluminium and aluminium alloys - Alloyed ingots for remelting - Specifications

Aluminium et alliages d'aluminium - Lingots pour refusion en alliages d'aluminium - Spécifications

Aluminium und Aluminiumlegierungen - Legierte Masseln zum Wiedereinschmelzen - Spezifikationen

This European Standard was approved by CEN on 2 March 2020.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN 1676:2020 (E)**

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## European foreword

This document (EN 1676:2020) 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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

CEN/TC 132 affirms it is its policy that in the case when a patentee refuses to grant licences on standardized products under reasonable and not discriminatory conditions, then this product shall be removed from the corresponding standard.

This document supersedes EN 1676:2010.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 23 “Revision of EN 1676 and EN 1706” to revise EN 1676:2010.

In comparison with EN 1676:2010, the following significant changes were made:

- a) In Table 1, the following alloys were deleted:
  - 1) EN AB-21200 [EN AB-Al Cu<sub>4</sub>MnMg];
  - 2) EN AB-43100 [EN AB-Al Si<sub>10</sub>Mg(b)].
- b) In Table 1, the following new alloys were added:
  - 1) EN AB-42300 [EN AB-Al Si<sub>7</sub>(Mg)];
  - 2) EN AB-42400 [EN AB-Al Si<sub>7</sub>MnMg];
  - 3) EN AB-44600 [EN AB-Al Si<sub>10</sub>Mn];
  - 4) EN AB-45600 [EN AB-Al Si<sub>7</sub>Cu<sub>1</sub>Mg<sub>0,6</sub>];
  - 5) EN AB-47200 [EN AB-Al Si<sub>12</sub>(Fe)];
  - 6) EN AB-48200 [EN AB-Al Si<sub>15</sub>Cu<sub>3</sub>MgFe].
- c) In Table 1, the maximum limit for lead was reduced to 0,29 %.

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- d) In Table 1, the chemical composition limits of the alloys EN AB-43000 [EN AB-Al Si10Mg], EN AB-43300 [EN AB-Al Si9Mg] and EN AB-51300 [EN AB-AlMg5] were modified.
- e) In Table 1, footnotes were added and modified.

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

## 1 Scope

This document defines the requirements for grades of alloyed aluminium ingots intended for remelting. It specifies the classifications and designations applicable to these grades, the conditions in which they are produced, their properties and the marks by which they are identified.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1780-1, *Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 1: Numerical designation system*

EN 1780-2, *Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 2: Chemical symbol based designation system*

EN 1780-3, *Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 3: Writing rules for chemical composition*

EN 12258-1:2012, *Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms*

EN 14242, *Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis*

EN 14361, *Aluminium and aluminium alloys — Chemical analysis — Sampling from metal melts*

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