



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1780-3:2002

ICS 77.150.10

**ALUMINIUM AND ALUMINIUM ALLOYS -
DESIGNATION OF ALLOYED ALUMINIUM
INGOTS FOR REMELTING, MASTER ALLOYS
AND CASTINGS - PART 3: WRITING RULES
FOR CHEMICAL COMPOSITION**

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EUROPEAN STANDARD
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EN 1780-3

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Supersedes EN 1780-3:1996

English version

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

Aluminium et alliages d'aluminium - Système de
désignation applicable aux lingots pour refusion en
aluminium allié, aux alliages-mères et aux produits moulés
- Partie 3: Règles d'écriture pour la composition chimique

Aluminium und Aluminiumlegierungen - Bezeichnung von
legiertem Aluminium in Masseln, Vorlegierungen und
Gussstücken - Teil 3: Schreibregeln für die chemische
Zusammensetzung

This European Standard was approved by CEN on 2 September 2002.

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.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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EN 1780-3:2002 (E)

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Foreword

This document (EN 1780-3:2002) 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 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 1 "*Liquid metal, unalloyed and alloyed ingots*" to prepare the following standard :

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*

This document supersedes EN 1780-3:1996 "*Aluminium and aluminium alloys – Designation of alloyed aluminium ingots for remelting, master alloys and castings – Part 3 : Writing rules for chemical composition*"

The difference to the former version is that unalloyed aluminium is removed from the scope and provisions dealing with unalloyed aluminium are deleted.

The provisions about the writing rules of unalloyed aluminium have been transferred into the revised version of EN 576.

This European Standard EN 1780, "*Aluminium and aluminium alloys – Designation of alloyed aluminium ingots for remelting, master alloys and castings*", comprises of the following parts:

- *Part 1 : Numerical designation system*
- *Part 2 : Chemical symbol based designation system*
- *Part 3 : Writing rules for chemical composition*

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 1780-3:2002 (E)

1 Scope

This European Standard specifies the writing rules for chemical composition of alloyed aluminium ingots for remelting, master alloys and castings.

Writing rules for unalloyed aluminium are specified in EN 576.

The five-figure numerical and the chemical symbol based designation systems of materials are specified in EN 1780-1 and EN 1780-2, respectively.

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 575, *Aluminium and aluminium alloys – Master alloys produced by melting – Specifications.*

EN 1676, *Aluminium and aluminium alloys – Alloyed ingots for remelting – Specifications.*

EN 1706, *Aluminium and aluminium alloys – Castings – Chemical composition and mechanical properties.*

3 Chemical composition limits

The chemical composition limits are specified in EN 575, EN 1676 and EN 1706.

4 Writing rules

Standard limits for alloying elements and impurities are generally expressed in percentage by mass to the following places (except in certain cases as specified in the standards listed in clause 3) :

- a) less than 0,001 % 0,000X ;
- b) 0,001 % through less than 0,01 % 0,00X ;
- c) 0,01 % through less than 0,10 % 0,0X ;
- d) 0,10 % through 0,55 % 0,XX ;
- e) over 0,55% 0,X ; X,X ; XX,X.

5 Alloy designations

Both the five figure based designations and the chemical symbol based designations are used in the tables appended to the specific European Standards (see clause 3).

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