

Aerospace series - Metallic materials - Rules for drafting and presentation of material standards - Part 002: Specific rules for aluminium, aluminium alloys and magnesium alloys

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 4500-002:2024 sisaldab Euroopa standardi EN 4500-002:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 28.08.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 4500-002:2024 consists of the English text of the European standard EN 4500-002:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 28.08.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 01.120, 49.025.05, 49.025.15

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EUROPEAN STANDARD

EN 4500-002

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2024

ICS 01.120; 49.025.05; 49.025.15

English Version

**Aerospace series - Metallic materials - Rules for drafting
and presentation of material standards - Part 002: Specific
rules for aluminium, aluminium alloys and magnesium
alloys**

Série aérospatiale - Matériaux métalliques - Règles
pour la rédaction et la présentation des normes de
matériaux - Partie 002 : Règles spécifiques à
l'aluminium, aux alliages d'aluminium et aux alliages
de magnésium

Luft- und Raumfahrt - Metallische Werkstoffe - Regeln
für das Erstellen und die Gestaltung von
Werkstoffnormen - Teil 002: Besondere Regeln für
Aluminium, Aluminiumlegierungen und
Magnesiumlegierungen

This European Standard was approved by CEN on 17 June 2024.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Rules for drafting a European standard for aerospace metallic materials.....	6
4.1 General.....	6
4.2 Title.....	6
4.2.1 General.....	6
4.2.2 Condition T4 and T42 or T6 and T62.....	7
4.2.3 Descriptions.....	7
4.3 Introduction.....	9
4.3.1 General.....	9
4.3.2 Condition Tx510 and Tx511, applicable to extruded bars and sections and drawn tubes..	9
4.4 Scope, normative references, terms and definitions.....	9
4.5 Table 1 (1 of 3)	9
4.5.1 Line 1: Material designation	9
4.5.2 Line 2: Chemical composition.....	9
4.5.3 Line 3: Method of melting	9
4.5.4 Line 4.1: Form	9
4.5.5 Line 4.2: Method of production.....	10
4.5.6 Line 4.3: Limit dimension(s).....	10
4.5.7 Line 5: Technical specification.....	10
4.5.8 Line 6.1: Delivery condition and Heat treatment.....	10
4.5.9 Line 6.2: Delivery condition code.....	10
4.5.10 Line 7: Use condition and Heat treatment	10
4.5.11 Line 8.1: Test sample(s).....	10
4.5.12 Line 8.2: Test piece(s)	10
4.5.13 Line 8.3: Heat treatment.....	10
4.5.14 Line 9: Dimensions concerned	10
4.5.15 Line 10: Thickness of cladding on each face	10
4.5.16 Line 11: Direction of test piece	10
4.5.17 Lines 12 to 16: Tensile (T)	11
4.5.18 Line 17: Hardness	11
4.5.19 Line 18: Shear strength.....	11
4.5.20 Line 19: Bending.....	11
4.5.21 Line 20: Impact strength	11
4.5.22 Lines 21 to 26: Creep (C)	11
4.5.23 Line 27: Notes (see line 98)	11
4.6 Table 1 (2 of 3)	11
4.6.1 Lines 28 to 94	11
4.6.2 Line 95: Marking inspection	12
4.6.3 Line 96: Dimensional inspection.....	12
4.6.4 Line 98: Notes.....	12
4.6.5 Line 99: Typical use.....	12

4.7	Table 1 (3 of 3)	12
4.8	Bibliography	12
Annex A (informative)	Completion of title page	13
Annex B (informative)	Completion of the introduction	14
Annex C (informative)	Completion of the scope, normative references, terms and definitions, and requirements	15
Annex D (informative)	Completion of Table 1 (1 of 3)	16
Annex E (informative)	Completion of Table 1 (2 of 3)	17
Annex F (informative)	Completion of Table 1 (3 of 3)	22
Annex G (informative)	Completion of the bibliography	26
Bibliography	27

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European foreword

This document (EN 4500-002:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

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.

This document supersedes XP prEN 4500-2:1997, which was published by ASD-STAN.

The main changes with respect to the previous edition are as follows:

XP prEN 4500-2, 02/1997 — Editorial improvements and update of the scope to change “single mode fibre core” to “simplex fibre”.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: 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, Türkiye and the United Kingdom.

Introduction

This document is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

The EN 4500 series (*Aerospace series — Metallic materials — Rules for drafting and presentation of material standards*) is composed by the following documents:

- General rules EN 4500-001;
- Specific rules for aluminium, aluminium alloys and magnesium alloys EN 4500-002;
- Specific rules for heat-resisting alloys EN 4500-003;
- Specific rules for titanium and titanium alloys EN 4500-004;
- Specific rules for steels EN 4500-005;
- Specific rules for filler metals for welding EN 4500-002 to EN 4500-005;
- Specific rules for filler metals for brazing EN 4500-006.

1 Scope

The EN 4500 series specifies the rules for the drafting and presentation of metallic material standards for aerospace applications.

This Part 002 specifies the “Specific rules for aluminium, aluminium alloys and magnesium alloys”.

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 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 4259, *Aerospace series — Metallic materials — Definition of general terms*

EN 1753, *Magnesium and magnesium alloys — Magnesium alloy ingots and castings*

EN 4500-001, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 001: General rules*

ASTM B275,¹ *Standard Practice for Codification of Certain Zinc, Tin and Lead Die Castings*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4259 and EN 4500-001 apply.

For temper designations, the terms and definitions given in EN 515 and EN 1753 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Rules for drafting a European standard for aerospace metallic materials

4.1 General

Examples given in Annexes are only intended to illustrate the rules for drafting and presentation and might not correspond to real standardized EN semi-finished products. Technological development can require the use of terms additional to those listed.

4.2 Title

4.2.1 General

Should be according to EN 4500-001 and Annex A of this document.

¹ Published by American Society for Testing and Materials (ASTM International), available at: <https://www.astm.org/>