

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

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 4500-001:2012 sisaldab Euroopa standardi EN 4500-001:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 4500-001:2012 consists of the English text of the European standard EN 4500-001:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 10.10.2012.	Date of Availability of the European standard is 10.10.2012.
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ICS 49.025.05; 49.025.15

English Version

Aerospace series - Metallic materials - Rules for drafting and presentation of material standards - Part 001: General rules

Série aérospatiale - Matériaux métalliques - Règles pour la rédaction et la présentation des normes de matériaux - Partie 001: Règles générales

Luft- und Raumfahrt - Metallische Werkstoffe - Regeln für das Erstellen und die Gestaltung von Werkstoffnormen - Teil 001: Allgemeine Regeln

This European Standard was approved by CEN on 23 June 2012.

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Foreword

This document (EN 4500-001:2012) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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

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of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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

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Introduction

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

1 Scope

This European Standard specifies the general rules for the drafting and presentation of metallic material standards for aerospace applications.

It is supported by additional rules specific to:

- | | |
|--|---------------------------|
| — Aluminium, aluminium alloys and magnesium alloys | EN 4500-2; |
| — Heat resisting alloys | EN 4500-003; |
| — Titanium and titanium alloys | EN 4500-004; |
| — Steels | EN 4500-005; |
| — Filler metals for welding | EN 4500-2 to EN 4500-005; |
| — Filler metals for brazing | EN 4500-6. |

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2002-001, *Aerospace series — Metallic materials — Test methods — Part 001: Tensile testing at ambient temperature*

EN 2032-1, *Aerospace series — Metallic materials — Part 1: Conventional designation*

EN 2032-2, *Aerospace series — Metallic materials — Part 2: Coding of metallurgical condition in delivery condition*

EN 2043, *Aerospace series — Metallic materials — General requirements for semi-finished product qualification (excluding forgings and castings)*¹⁾

EN 4258, *Aerospace series — Metallic materials — General organization of standardization — Links between types of EN standards and their use*

EN 4259, *Aerospace series — Metallic materials — Definition of general terms*¹⁾

1) Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

EN 4500-2, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 2: Specific rules for aluminium, aluminium alloys and magnesium alloys*

EN 4500-003, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 003: Specific rules for heat resisting alloys*

EN 4500-004, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 004: Specific rules for titanium and titanium alloys*

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EN 4500-005, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 005: Specific rules for steels* ¹⁾

EN 4500-6, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 6: Specific rules for filler metals for brazing* ¹⁾

ISO 80000-1, *Quantities and units — Part 1: General*

ISO 80000-2, *Quantities and units — Part 2: Mathematical signs and symbols to be used in the natural sciences and technology*

ISO 80000-3, *Quantities and units — Part 3: Space and time*

ISO 80000-4, *Quantities and units — Part 4: Mechanics*

ISO 80000-5, *Quantities and units — Part 5: Thermodynamics*

ISO 80000-10, *Quantities and units — Part 10: Atomic and nuclear physics*

3 Terms and definitions

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

3.1

alloying elements

elements other than base metal, for which the mass content gives the typical characteristics of the alloy

3.2

limit dimension and equivalent diameter D_e

the limit dimension is the maximum size, expressed as the equivalent diameter (D_e), in which the mechanical properties can be obtained at the specified test piece positions, when heat-treated in accordance with the material standard

4 Rules for drafting and presentation

4.1 General

NOTE Examples given in part 2 to 6 are only intended to illustrate the rules for drafting and presentation and may not correspond to real standardized EN products. Technological development may require the use of terms additional to those listed.

4.2 Page 1: Title of the material standard

The title shall give sufficient information to unambiguously identify the semi-finished product, in the use condition (see 4.5.11).

- Consequently:
1. the same title shall not be used for different material standards;
 2. overlapping of mechanical property limits for otherwise identical material standards shall not normally be permitted.