



SLOVENSKI STANDARD SIST EN 4258:2001

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Aerospace series - Metallic materials - General organization of standardization - Links between types of EN standards and their use

Aerospace series - Metallic materials - General organization of standardization - Links
between types of EN standards and their use

Luft- und Raumfahrt - Metallische Werkstoffe - Allgemeine Gliederung der Normung -
Verknüpfung der Arten von EN-Normen und ihre Anwendung

Série aérospatiale - Matériaux métalliques - Organisation générale de la normalisation -
Liens entre les types de normes EN et leur utilisation

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 4258

May 1998

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Descriptors: aircraft industry, metals, semi-finished products, definitions, standards, description, organization, reference to standards, level, quantity, utilization

English version

Aerospace series - Metallic materials - General organization of
standardization - Links between types of EN standards and their
use

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Gliederung der Normung - Verknüpfung der Arten von EN-
Normen und ihre Anwendung

This European Standard was approved by CEN on 23 February 1998.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries 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 AECMA, 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 November 1998, and conflicting national standards shall be withdrawn at the latest by November 1998.

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.

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0 Introduction

For the purpose of standardization of metallic materials, AECMA had originally based the organization of this standardization on a system which provided strong interlinks between a material standard referring to EN 2500 and its supporting standards.

Since these links did not allow the partial use of the supporting standards, the following amendments have been introduced to ensure that:

- strongly interlinked standards are limited to those strictly necessary to ensure coherency;
- other standards may be either used, or replaced by standards of another origin, at the purchaser's discretion.

The basic change in these links is that the dimensional standards and designation standard for semi-finished products, where applicable, have been dissociated from the material standard. Additionally, product qualification procedures are being introduced.

Pending the updating of the standards, these two organizations exist in parallel:

- the original one described by EN 2500;
- the new one described in this standard (see annexes A and B).

To enable progressive updating of the standards, an intermediate procedure is to be followed, as described in annex C, pending full introduction of the new organization.

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1 Scope

This standard specifies the general organization of metallic material standards, their links with other types of EN standards and their use, for aerospace applications.

It corresponds to level 0 (see 4.1).

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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.

EN 2032-1	Aerospace series - Metallic materials - Part 1: Designation ¹⁾
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 2078	Aerospace series - Metallic materials - Manufacturing schedule - Inspection schedule - Inspection and test report - Description and rules for use
EN 2500	Aerospace series - Instructions for the drafting and use of metallic material standards ²⁾
EN 2600	Aerospace series - Designation of metallic semi-finished products - Rules ¹⁾

1) Published as AECMA Prestandard at the date of publication of this standard

2) Series of parts, published as AECMA Prestandards at the date of publication of this standard

EN 4000	Aerospace series - Metallic materials - Rules for drafting and presentation of dimensional standards for semi-finished products ³⁾
EN 4179	Aerospace series - Metallic materials - Qualification and approval of personnel for non destructive testing ³⁾
EN 4259	Aerospace series - Metallic materials - Definitions of general terms ⁴⁾
EN 4260	Aerospace series - Metallic materials - Rules for drafting and presentation of technical specifications ³⁾
EN 4261	Aerospace series - Metallic materials - Rules for drafting and presentation of test method standards ³⁾
EN 4268	Aerospace series - Metallic materials - Heat treatment facilities ⁴⁾
EN 4500	Aerospace series - Metallic materials - Rules for drafting and presentation of material standards ⁵⁾
TR 2410	Aerospace series - Relationship between dimensional standards and metallic material standards ⁶⁾

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 Family of metallic materials

Group of metallic materials characterized by a base element or a group of base elements in several different semi-finished product forms:

- aluminium and aluminium alloys;
- magnesium alloys;
- heat resisting alloys (nickel or cobalt or iron base);
- titanium and titanium alloys;
- steel;
- filler metals for brazing;
- etc.

3.2 Semi-finished products

Generic term used to indicate that the material as supplied does not necessarily have any relation to the exact form, dimensions or condition in which that material is used as a final component.

This term may refer to one of the following types:

- wrought products (e.g. bar, sheet, sections) or cast products (e.g. rod, amorphous brazing foil) characterized by their form within a range of standardized dimensions;
- products of non-standardized form and dimensions produced by the same metallurgical technique (e.g. forging stock, remelting stock);
- blanks manufactured from the products stated above, of non-standardized form and dimension (e.g. forgings, castings).

3) Published as AECMA Prestandard at the date of publication of this standard

4) In preparation at the date of publication of this standard

5) Series of parts, published as AECMA Prestandards at the of publication of this standard

6) Published as AECMA Technical Report at the date of publication of this standard

4 Description of the types of EN standards

There are five levels of EN standards, numbered from 0 to 4 (see annex A).
For the intermediate procedure, see annex C.

4.1 General standard (level 0)

- Explanatory standard for the organization of the whole collection EN 4258

4.2 Basic standards (level 1)

They define the wording and/or specify conventional rules that provide the basis of understanding between the writer and the user of standards specifying rules (see 4.3) and semi-finished product definition documents (see 4.4).

They are the following:

- definitions of the general terms EN 4259
- definitions of manufacturing schedule,
inspection schedule and inspection and test report EN 2078
- material designation EN 2032-1
- coding of metallurgical condition in the delivery condition EN 2032-2

4.3 Standards specifying rules (level 2)

They specify the specific rules for the drafting and presentation of the semi-finished product definition documents (see 4.4).

They are the following:

- material standards EN 4500 series
- technical specifications EN 4260
- test method standards EN 4261
- dimensional standards EN 4000

and during the intermediate procedure:

- general requirements for qualification EN 2043

4.4 Semi-finished product definition documents (level 3)

4.4.1 Material standards

They specify a series of technical requirements relating to a metallic material semi-finished product, in one or several delivery conditions and only one use condition.

4.4.2 Technical specifications

They specify, for the semi-finished products of a metallic material family, general and specific technical requirements related to:

- manufacturing;
- quality assurance (qualification, acceptance, etc.);
- the preparation and procedures for inspection (including test frequency);
- the order and shipment.

4.4.3 Test method standards

They specify instructions concerning:

- principle;
- reagents and/or associated materials;
- apparatus;
- preparation and retention of test samples and/or test pieces;
- procedure(s).

for determination of a characteristic.

4.4.4 Dimensional standards

They specify, for each form of semi-finished product in a family of metallic materials:

- geometry;
- dimensions;
- associated tolerances.

4.4.5 Designation standards for semi-finished products

They specify the rules for designation of metallic semi-finished products, e.g.: EN 2600.

4.4.6 Technical Reports

They group information in a practical way, e.g.

- relationship between dimensional standards
and material standards TR 2410

4.5 Supplementary standards for quality assurance (level 4)

They specify supplementary quality assurance requirements concerning e.g.:

- personnel;
- facilities;
- processes.

For example the following:

- Qualification and approval of personnel for
non-destructive testing EN 4179
- Heat treatment facilities EN 4268

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5 Links between types of EN standards and use

5.1 Level 1, 2 and 4 standards

5.1.1 Basic standards (level 1) shall be systematically used in defining the semi-finished product definition documents (level 3), see 5.2.

5.1.2 Rules (level 2) for the drafting and presentation of semi-finished product definition documents (level 3), shall be systematically applied.

5.1.3 Supplementary standards for quality assurance (level 4) are only referred to in the relevant standards where their application is considered necessary.

NOTE: The supplementary standards for quality assurance may also be external to the collection (e.g. ISO, ASTM) after agreement between the manufacturer and the purchaser.

5.2 Level 3 standards

5.2.1 The material standard is the lead document that provides the basis of understanding between the manufacturer and the purchaser.

As such, the requirements of the material standard shall override any other different requirements of any other referenced level 3 standard (see annex B).

5.2.2 The material standard shall refer to the relevant technical specification.

NOTE: This link is mandatory for coherency of the collection.

5.2.3 The material standard and the relevant technical specification shall refer to test method standards, where required.

NOTE 1: The test method standards from the original organization remain valid for the new organization.

NOTE 2: Test method standards external to the collection may also be used (e.g. ISO, ASTM).

5.2.4 Dimensional standards shall not be referred to in the material standards.

Dimensions shall be independently specified by the purchaser on the order, in accordance with the requirements of the technical specification or normative documents from another origin.

5.2.5 Designation standards shall not be referred to in the material standards or in the dimensional standards.

Designation rules, when required, shall be independently specified by the purchaser on the order, in accordance with the requirements of the technical specification or normative documents from another origin.

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5.3 Technical Reports

Technical Reports defining relationships between standards or data from different standards are established to facilitate the use at any level of the standards in the collection. They shall not be referred to in material standards or dimensional standards.

6 Overview

See annex A.