



SLOVENSKI STANDARD
SIST EN 4260:2022

01-junij-2022

Aeronavtika - Kovinski materiali - Pravila za pripravo in predstavitev tehničnih specifikacij

Aerospace series - Metallic materials - Rules for drafting and presentation of technical specifications

Luft- und Raumfahrt - Metallische Werkstoffe - Regeln für die Abfassung und Gestaltung von Technischen Lieferbedingungen

Série aérospatiale - Matériaux métalliques - Règles pour la rédaction et la présentation des spécifications techniques

Ta slovenski standard je istoveten z: EN 4260:2022

<https://standards.iteh.ai/catalog/standards/sist/42ab85b8-c040-411d-a356-439ccbcca719/sist-en-4260-2022>

ICS:

49.025.05 Železove zlitine na splošno Ferrous alloys in general

SIST EN 4260:2022

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EUROPEAN STANDARD

EN 4260

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

ICS 49.025.05; 49.025.15

English Version

Aerospace series - Metallic materials - Rules for drafting and presentation of technical specifications

Série aérospatiale - Matériaux métalliques - Règles
pour la rédaction et la présentation des spécifications
techniques

Luft- und Raumfahrt - Metallische Werkstoffe - Regeln
für die Erstellung und Gestaltung von Technischen
Lieferbedingungen

This European Standard was approved by CEN on 18 November 2019.

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.

CEN members are the national standards bodies of 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 United Kingdom.

SIST EN 4260:2022

<https://standards.iteh.ai/catalog/standards/sist/42ab85b8-c040-411d-a356-439ccbcca719/sist-en-4260-2022>



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

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

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European foreword

This document (EN 4260:2022) 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-STAN, 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 October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

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EN 4260:2022 (E)

Introduction

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

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<https://standards.iteh.ai/catalog/standards/sist/42ab85b8-c040-411d-a356-439ccbcca719/sist-en-4260-2022>

1 Scope

This document specifies the rules for the drafting and presentation of technical specifications for metallic materials.

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 2078, *Aerospace series — Metallic materials — Manufacturing schedule, inspection schedule, inspection and test report — Definition, general principles, preparation and approval*

EN 2600, *Aerospace series — Designation of metallic semi-finished products — Rules*

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

EN 4268, *Aerospace series — Metallic materials — Heat treatment facilities — General requirements*

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

TR 2410, *Aerospace series — Relationship between dimensional standards and metallic material standards*²

3 Terms and definitions

[SIST EN 4260:2022](https://standards.iteh.ai/catalog/standards/sist/42ab85b8-9419-4111-ba356-420-0000719/sist-en-4260-2022)

[https://standards.iteh.ai/catalog/standards/sist/42ab85b8-](https://standards.iteh.ai/catalog/standards/sist/42ab85b8-9419-4111-ba356-420-0000719/sist-en-4260-2022)

No terms and definitions are listed in this document.

ISO and IEC maintain terminological 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 Framework and structure

4.1 General

Where necessary the technical specification may be subdivided into several parts (e.g. EN XXXX-001, EN XXXX-002, etc., where Part 001 is always the general part).

In such cases all general requirements should be incorporated in Part 001 (general part) and the specific requirements in Part 002 onwards (specific parts).

4.2 Required elements

The technical specification shall include the following elements in the given order:

¹ Published as ASD-STAN Standard at the date of publication of this document (see www.asd-stan.org).

² Published as ASD-STAN Technical Report at the date of publication of this standard (see www.asd-stan.org).

EN 4260:2022 (E)

- a) Title;
- b) Introduction;
- c) Clause – 1 Scope;
- d) Clause – 2 Normative references;
- e) Clause – 3 Terms and definitions;
- f) Clause – 4 Requirements;
- g) Clause – 5 Qualification;
- h) Clause – 6 Release testing;
- i) Clause – 7 Preparation for delivery.

5 Content

Standard sentences, placed in a frame, are listed below for the different clauses of the technical specifications and are mandatory.

When necessary, further information is indicated in italics.

5.1 Title

The title shall give sufficient information to unambiguously identify the subject of this standard.

5.1.1 General part

EXAMPLE	<u>SIST EN 4260:2022</u>
Aerospace series	https://standards.iteh.ai/catalog/standards/sist/42ab85b8-c040-411d-a356-439ccbcca719/sist-en-4260-2022
Family of metallic materials (<i>e.g. steel, aluminium</i>)	
Type of product (<i>e.g. wrought products, castings, filler metal for brazing</i>)	
Technical specification	
Part 001: General requirements	

5.1.2 Specific part

EXAMPLE
Aerospace series
Family of metallic materials (<i>e.g. steel, aluminium</i>)
Type of product (<i>e.g. wrought products, castings, filler metal for brazing</i>)
Technical specification
Part X: Form(s) product (<i>e.g. bar, tube for structure, forging stock</i>)

5.2 Introduction

EXAMPLE
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.

5.3 Clause 1: Scope

In this clause the scope and application limits of the technical specification shall be stated.

5.3.1 General part

EXAMPLE

1 Scope

This document defines the general requirements for manufacture, inspection and testing of products in *(complete with type of products and metallic material family, e.g. bar in heat-resisting alloys).*

Specific requirements applicable to each type of product are defined in Part 002 onwards *(if applicable).*

It shall be applied when referred to in the EN material standard unless otherwise specified on the drawing, order or inspection schedule.

5.3.2 Specific part

EXAMPLE

1 Scope

This document defines the general requirements for manufacture, inspection and testing of products in *(complete with type of products and metallic material family, e.g. bar in heat-resisting alloys).*

It shall be applied in conjunction with EN XXXX-001 *(insert EN number of the general part)*

5.4 Clause 2: Normative references

EXAMPLE

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. *(Followed by the list of documents, giving their number and titles to which reference is made in the text).*

5.5 Clause 3: Terms and definitions

This clause shall only contain definition(s) not included in EN 4259.

5.5.1 General part

EXAMPLE

3 Terms and definitions

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

ISO and IEC maintain terminological 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/>

General definitions see EN 4259 *(add additional definitions, if necessary).*

5.5.2 Specific part

EXAMPLE

3 Terms and definitions

For the purpose of this document, the terms and definitions given in EN and the following apply. ISO and IEC maintain terminological 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/>

General definitions see EN XXXX-001 (*add additional definitions, if necessary*).

5.6 Clause 4: Requirements

This clause shall contain all the necessary technical requirements for the manufacture, inspection and testing of the products.

This clause is subdivided into two sub-clauses:

- clause 4.1: General requirements;
- clause 4.2: Technical requirements.

5.6.1 General part

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EXAMPLE

4 Requirements

4.1 General requirements

4.1.1 Manufacturing schedule

The product shall be manufactured to fulfil the requirements of the relevant material standard and this technical specification. [https://standards.iteh.ai/catalog/standards/sist/42ab85b8-](https://standards.iteh.ai/catalog/standards/sist/42ab85b8-0401111b-356429cbb-719/sist-en-4260-2022)

The manufacturer shall define the raw material, processes and inspection requirements in a manufacturing schedule in accordance with EN 2078.

The manufacturer shall make this available to purchaser or mandated body upon request.

Once approved any modifications to the manufacturing schedule shall be in accordance with EN 2078 and EN 9133.

4.1.2 Traceability

Each semi-finished product shall be traceable to the cast production batch and/or heat treatment batch at all stages of manufacture and delivery.

4.1.3 Freedom from defects

All products shall be free from defects not complying with the requirements of the material standard or order, or which may be prejudicial to the subsequent manufacture and/or use of the products.

4.1.4 Health and safety

The product in the delivery condition shall fulfil the current health and safety laws of the area of the country where it is to be delivered.

A product safety data sheet shall be available.

4.2 Technical requirements

4.2.1 General

The product shall satisfy the requirements of the relevant material standard and/or the order.

4.2.1.1 Heat treatment

Unless otherwise specified, heat treatment facilities and procedures shall conform to EN 4268.

The product shall be supplied in the delivery condition specified in the material standard and/or order. If a specific temperature (value and tolerance) is stated in the material standard and/or order, that temperature shall be mandatory.

If a temperature range is stated, a temperature within that range reduced by the tolerances of the furnace shall be selected. The charge shall be maintained at the temperature selected subject to the furnace tolerances in table ... for the period stated. Where no period is stated this shall be at the discretion of the manufacturer.

Table ...

Selected temperatures (°C)	Tolerances (°C)
$\theta < 750$	± 5
$750 \leq \theta \leq 1\ 250$	± 10
$\theta > 1\ 250$	± 15

4.2.1.2 Chemical composition

The test samples used for analysis shall be representative of the product.

The method of analysis shall be at the option of the manufacturer, but in cases of dispute, the reference method set out in the relevant EN or ISO standard shall be used.

If no EN or ISO standard exists, a fundamental and agreed method of chemical analysis calibrated against accepted reference standards shall be used.

4.2.1.3 Preparation of samples

Test samples shall not be worked after removal from the product they represent, except in cases where the product is intended for further working (forging stock), or when permitted by the material standard or the order.

- Samples and associated test pieces shall be marked in such a manner that their identity and orientation with respect to the product and the batch is maintained.
- Samples taken from finally heat treated products (condition of use) shall not be further treated.
- Samples representing products in a condition other than the condition of use shall be heat treated in accordance with the material standard before testing.

4.2.1.4 Dimensions

Dimensions and tolerances shall conform to the requirements of the order or drawing. The frequency of examination adopted by the manufacturer shall be sufficient to enable him to certify compliance with the requirements.

NOTE TR 2410 gives the relationship between EN dimensional standards and EN material standards.

4.2.1.5 Semi-finished product designation

When required, semi-finished product designations shall conform to the requirements of the order.

NOTE The semi-finished product designation system to be used may be defined by EN 2600, a national standard, a company standard or a project standard.