



SLOVENSKI STANDARD

SIST EN 2043:2014

01-marec-2014

Aeronavtika - Kovinski materiali - Splošne zahteve za kvalifikacijo polizdelkov (razen izkovkov in odlitkov)

Aerospace series - Metallic materials - General requirements for semi-finished product qualification (excluding forgings and castings)

Luft- und Raumfahrt - Metallische Werkstoffe - Allgemeine Anforderungen an die Qualifizierung von Halbzeug (ausgenommen Schmiedestücke und Gussstücke)

Série aérospatiale - Matériaux métalliques - Exigences générales pour la qualification des demi-produits (à l'exclusion des pièces forgées, matricées ou moulées)

<https://standards.iteh.ai/catalog/standards/sist/59e88e6c-ae14-48d7-8308-95d3e9389e92/sist-en-2043-2014>

Ta slovenski standard je istoveten z: **EN 2043:2013**

ICS:

49.025.05	Železove zlitine na splošno	Ferrous alloys in general
49.025.15	Neželezove zlitine na splošno	Non-ferrous alloys in general

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EUROPEAN STANDARD

EN 2043

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2013

ICS 49.025.05; 49.025.15

English Version

Aerospace series - Metallic materials - General requirements for semi-finished product qualification (excluding forgings and castings)

Série aérospatiale - Matériaux métalliques - Exigences générales pour la qualification des demi-produits (à l'exclusion des pièces forgées, matricées ou moulées)

Luft- und Raumfahrt - Metallische Werkstoffe - Allgemeine Anforderungen an die Qualifizierung von Halbzeug (ausgenommen Schmiedestücke und Gussstücke)

This European Standard was approved by CEN on 8 May 2013.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 2043:2013) 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 January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

This standard is part of the series of EN metallic material standards for aerospace applications.

It is only valid when used in conjunction with a technical specification from the original organization of these standards, according to the intermediate procedure as described in EN 4258 Annex C, pending full introduction of the new organization as specified in EN 4258.

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1 Scope

This European Standard defines the general requirements for semi-finished product qualification of EN metallic materials (excluding forgings and castings).

Specific requirements are given in the material standards and/or relevant technical specification.

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

EN 9100, *Aerospace series — Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

EN ISO 9001, *Quality management systems — Requirements (ISO 9001)*

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3 Terms and definitions (standards.iteh.ai)

For the purpose of this document the following definitions apply:

3.1
semi-finished product
see EN 4258

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Note 1 to entry: Called product in the rest of this standard.

3.2
established manufacturer

manufacturer who is well established in terms of his manufacturing facilities and has manufactured products for the aerospace industry for a number of years to recognized national or company aerospace specifications, and has obtained significant statistical data for those products

These manufacturers shall already hold some form of approval conforming to EN ISO 9001 or to other national or company aerospace quality systems.

3.3
established product

product manufactured to an existing national or company aerospace specification, which is accepted as an alternative to the EN material standard, and for which significant national data is available

3.4
new manufacturer

manufacturer who has not previously manufactured products for the aerospace industry

3.5
new product

product which has not previously been manufactured, by an established or new manufacturer to a national or company aerospace specification

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3.6 product pre-qualification
pre-qualification; manufacturers data or screening tests to verify basic properties according to the requirements of the relevant material standard, and process routes

4 Quality assurance**4.1 Approval of quality system**

See EN 9100.

4.2 Product qualification

Product qualification shall be in accordance with EN 9133.

The product tested for qualification shall be manufactured on the same equipment and in accordance with the same specification and process procedures as the serial products.

Product qualification to a material standard includes the manufacturers' acceptance to a quality audit of the entire production procedure, from the raw material acquisition, through processing steps to batch release and the use of relevant standards including quality assurance documentation.

If required a confidential audit can be carried out.

Adjustment of the manufacturing schedule to accommodate improved manufacturing techniques to the state of the art is the manufacturer's responsibility but may require requalification of the product to the material standard.

As part of the product qualification, the mandated body reserves the right to carry out processing trials and/or product qualification tests in house or at an independent facility.

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All results of the product qualification tests including reference to the manufacturing schedule shall be presented in a qualification test report (see subclause 4.2.3).

Upon successful product qualification the manufacturer's name and qualified product will be recorded at www.ASD-cert.org.

The qualification is directed to the raw material specifications or sources and the equipment and the processes which have been identified in the manufacturing schedule.

NOTE To use a certain product in an aerospace application product qualification alone may not be sufficient; additional pre-and/or post-qualification testing may be required by the user:

- Pre-qualification: manufacturer's data or screening tests to verify basic properties according to the requirements of the relevant material standard and process routes. The requirements shall be negotiated between the user and the mandated body.
- Post-qualification: specific component tests when required separately specified as part of the project certification process.
- These component tests are the responsibility of the user who should also specify the requirements.

4.2.1 Tests

Product qualification testing shall conform to the requirements specified in line 100 of the relevant material standard.

For new products or new manufacturers this full qualification testing shall be required.