



SLOVENSKI STANDARD
SIST EN 2082-2:2001
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Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 2: Forging stock

Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 2: Forging stock

Luft- und Raumfahrt - Schmiedevormaterial und Schmiedestücke aus Aluminiumlegierungen - Technische Lieferbedingungen - Teil 2: Schmiedevormaterial

Série aérospatiale - Produits destinés à la forge, pièces forgées et pièces matricées en alliage d'aluminium - Spécification technique - Partie 2: Produits destinés à la forge

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Ta slovenski standard je istoveten z: EN 2082-2:1989

ICS:

49.025.20 Aluminij Aluminium

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EUROPEAN STANDARD
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EN 2082

Part 2

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Key words : Aircraft industry, forgings, die forgings, aluminium alloys, forging, marking

English version

**Aerospace series
Aluminium alloy
forging stock
and forgings
Technical specification
Part 2 : Forging stock**

**Série aérospatiale
Produits destinés à la forge,
pièces forgées et pièces matricées
en alliages d'aluminium
Spécification technique
Partie 2 : Produits destinés à la forge**

**Luft- und Raumfahrt
Schmiedevormaterial
und Schmiedestücke
aus Aluminiumlegierungen
Technische Lieferbedingungen
Teil 2 : Schmiedevormaterial**

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This European Standard was accepted by CEN on 1988-11-03. CEN members are bound to comply with the requirements of CEN 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 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 CEN Central Secretariat has the same status as the official versions.

CEN members are the national standards organizations of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat : Rue Bréderode 2, B-1000 Bruxelles

Brief history

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 successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

According to the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope and field of application

This standard specifies the particular requirements for forging stock intended for the manufacture of forgings in aluminium alloys and shall be used in conjunction with EN 2082-1.

2 References

EN 2002-1, Aerospace series - Test methods for metallic materials - Part 1 - Tensile testing at ambient temperature 1)

EN 2070-7, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 7 - Wrought forging stock

EN 2082-1, Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 1 - General requirements.

3 Types of product

The products are either wrought forging stock or cast forging stock.

For wrought forging stock EN 2070-7 is applicable. For cast forging stock the following clauses are applicable.

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4 Dimensions and tolerances

The dimensions and tolerances shall be defined by agreement between the manufacturer and the purchaser.

The frequency of examination adopted by the manufacturer shall be sufficient to permit him to certify compliance with the requirements.

1) In preparation.

5 Internal defects

The product shall not contain defects prejudicial to further working.

Unless otherwise specified by the purchaser on the order or in the inspection schedule, the method of inspection (e.g. macrography, fracture and/or ultrasonic inspection) and acceptance criteria shall be at the option of the manufacturer.

The frequency of examination adopted by the manufacturer shall be sufficient to permit him to certify compliance with the requirements.

6 External defects

The surface of products shall be free from defects considered prejudicial to further working.

Surface defects can be removed by local dressing provided the product remains within the specified dimensional tolerances.

Products supplied in machined condition shall be examined subsequent to metal removal.

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Each product shall be visually examined.

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7 Tensile test

Where the material standard specifies tensile properties, tensile tests shall be carried out on each cast in conformity with EN 2002-1 on a sample forged to a thickness of 25 mm to 30 mm with a maximum forge reduction of 4 : 1.

The sample shall be heat-treated in conformity with the EN material standard.

Tests shall be performed on proportional round test pieces in accordance with EN 2002-1.

Sampling frequency shall be in accordance with the table.

The results shall meet the requirements of the relevant material standard.

8 Marking

Unless otherwise specified on the order, all products shall bear the following identification marking :

- Material standard
- Cast number
- Ingot number
- Delivery condition if applicable
- Manufacturer's and plant's identification
- Inspection stamp
- Position of delivered product in the cast ingot, where applicable.

Identification marking shall be hard stamped at least once on each product.

The frequency of examination adopted by the manufacturer shall be sufficient to permit him to certify compliance with the requirements.

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Table - Summary of requirements

Requirement	Clause	Product	Inspection / testing		
			Method	Standard	Frequency
Dimensions	4	All	-	-	See clause 4
Internal defects	5	All	-	-	See clause 5
External defects	6	All	Visual	-	100%
Tensile test	7	All	Tensile	EN 2002-1	1 test per cast
Marking	8	All	Visual	-	See clause 8

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