Lennunduse ja kosmonautika seeria. Alumiiniumist ja alumiiniumisulamist survetöötlusmeetodil valmistatavad tooted. Tehnilised andmed. Osa 1: Üldnõuded

Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 1: General requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 2070-1:2000 sisaldab Euroopa standardi EN 2070-1:1989+A1:1993 ingliskeelset teksti.	This Estonian standard EVS-EN 2070-1:2000 consists of the English text of the European standard EN 2070-1:1989+A1:1993.
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 27.12.1989.	Date of Availability of the European standard is 27.12.1989.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 49.025.20

Võtmesõnad: accepta nce, aircraft industry, alu minium, aluminium alloys, manufacturing, rolled products, semi-finished products, specifications,

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2070

Part 1

December 1989

UDC : 669.71.018.26-4 : 620.1 : 629.7

Key words : Aircraft industry, rolled products, semi-finished products, aluminium, aluminium alloys, manufacturing, specifications, acceptance

English version

Aerospace series
Aluminium and aluminium alloy wrought products
Technical specification
Part 1 : General requirements

Série aérospatiale
Demi-produits corroyés en aluminium et alliages d'aluminium
Spécification technique
Partie 1 : Exigences générales

Luft- und Raumfahrt
Halbzeug aus Aluminium und Aluminium-Knetlegierungen
Technische Lieferbedingungen
Teil 1 : Allgemeine Anforderungen

This European Standard was accepted by CEN on 1988-07-20. 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, Luxemburg, Netherlands, Norway, Portugal, Spain, Switzerland and United Kingdom.

Contents

1 Scope

This standard defines the general requirements for inspection and testing of wrought aluminium and aluminium alloys.

Particular requirements applicable to each type of wrought products are defined in EN 2070-2 to EN 2070-7.

The corresponding requirements for forgings are given in EN 2082-1 to EN 2082-3.

2 Field of application

For aerospace purposes this standard shall be applied in conjunction with EN material standards unless otherwise specified on the drawing, order or inspection schedule.

By agreement between the purchaser and the manufacturer, it may also be applied to other material, semi-finished products or delivery conditions not covered by EN standards. The agreement shall be formalized by reference to this standard on the drawing, order or inspection schedule.

3 References

EN 2070-2, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 2 - Sheet, strip, formed profiles and plate

EN 2070-3, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 3 - Bar and section

EN 2070-4, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 4 - Structural tube

EN 2070-5, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 5 - Tube used under pressure

EN 2070-6, Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 6 - Rivet wire

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

EN 2078, Aerospace series - Manufacturing schedule, inspection schedule and inspection report. General definitions

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

EN 2082-2, Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 2 - Forging stock

EN 2082-3, Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 3 - Pre-production and production forgings.

4 Definitions

4.1 Cast

4.1.1 Metal taken from the same melt in a furnace or crucible or from several melts mixed in the same furnace or crucible before pouring.

4.1.2 Where a continuous melting process is used, a cast may be defined as metal taken from the furnace before the next following charge.

4.2 Batch

A batch consists of material :

- of the same form (sheet, plate, tube, bar, etc ...) and of the same nominal dimensions,

- from the same cast; for extrusions and rivet wire, 2 casts which are within 60% of the specified composition range and in which the maximum impurity content remains unchanged, may be aggregated to form a batch,

- manufactured in the same production period,

- in the same heat treatment condition,

- and from the same heat treatment charge,

- for solution heat treatment in a continuous furnace, material from a maximum run of 8 h is regarded as a batch.

4.3 Sheet

Flat rolled product of rectangular section of uniform thickness between 0,2 mm and 6 mm, supplied in straight lengths with slit, sawn or sheared edges.