



SLOVENSKI STANDARD
SIST EN 2636:2001
01-januar-2001

Aerospace series - Aluminium alloy AL-P6082-T6 - Extruded bars and sections a or D \leq 200 mm with peripheral coarse grain control

Aerospace series - Aluminium alloy AL-P6082-T6 - Extruded bars and sections a or D \leq 200 mm with peripheral coarse grain control

Luft- und Raumfahrt - Aluminiumlegierung AL-P6082-T6 - Stranggepreßte Stangen und Profile a oder D \leq 200 mm mit Kontrolle der Grobkornrandzone

Série aérospatiale - Alliage d'aluminium AL-P6082-T6 - Barres et profilés filés a ou D \leq 200 mm avec contrôle de la zone périphérique a gros grains

<https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001>

Ta slovenski standard je istoveten z: EN 2636:1993

ICS:

49.025.20 Aluminij Aluminium

SIST EN 2636:2001 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 2636:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001>

EUROPEAN STANDARD

EN 2636

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1993

UDC 669.715-422:620.1:629.7

Descriptors: Aircraft industry, aluminium, aluminium alloys, metal bars, metal sections, extruded products

English version

**Aerospace series - Aluminium alloy AL-P6082-T6 -
Extruded bars and sections a or D \leq 200 mm
with peripheral coarse grain control**

Série aérospatiale - Alliage d'aluminium
AL-P6082-T6 - Barres et profilés filés a ou D
 \leq 200 mm avec contrôle de la zone périphérique
à gros grains

Luft- und Raumfahrt - Aluminiumlegierung
AL-P6082-T6 - Stranggeprägte Stangen und
Profile a oder D \leq 200 mm mit Kontrolle der
Grobkornrandzone

(standards.iteh.ai)

[SIST EN 2636:2001](https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001)

<https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001>

This European Standard was approved by CEN on 1993-12-06. 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.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, 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 de Stassart, 36 B-1050 Brussels

Page 2
EN 2636:1993

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

This standard was submitted for Formal Vote, and the result was positive.

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 June 1994, and conflicting national standards shall be withdrawn at the latest by June 1994.

According to the CEN/CENELEC Internal Regulations, 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, United Kingdom.

ITeH STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 2636:2001

<https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001>

0 Introduction

For the use of this standard, see EN 2500-2.

1 Scope

This standard specifies the requirements relating to extruded bars and sections in aluminium alloy, AL-P6082-, for use in the T6 condition, a or D \leq 200 mm, with peripheral coarse grain control, for aerospace applications.

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 2047 Beaded L- section aluminium alloy extrusions - Dimensions - Aerospace series ¹⁾
- EN 2048 L- section aluminium alloy extrusions - Dimensions - Aerospace series ¹⁾
- EN 2049 Channel section aluminium alloy extrusions - Dimensions - Aerospace series ¹⁾
- EN 2050 T- section aluminium alloy extrusions - Dimensions - Aerospace series ¹⁾
- EN 2070-3 Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 3: Bar and section [SIST EN 2636:2001](https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-41f20ddd979/sist-en-2070-3)
- EN 2134 Round aluminium alloy bars - Extruded - Dimensions - Aerospace series ¹⁾
- EN 2341 Aluminium and aluminium alloy square and rectangular extruded bars - Dimensions - Aerospace series ¹⁾
- EN 2500-2 Aerospace series - Instructions for the drafting and use of metallic material standards - Part 2: Specific requirements for aluminium, aluminium alloys and magnesium alloys ²⁾
- EN 2600 Aerospace series - Designation of metallic semi-finished products - Rules ²⁾

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

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

1		Aluminium alloy AL-P6082-											
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
											Each	Total	
		min.	0,7	-	-	0,40	0,6	-	-	-	-	-	-
max.	1,3	0,50	0,10	1,0	1,2	0,25	0,20	0,10	0,05	0,15			
3		Method of melting											
4		Form Method of production Limit dimensions (mm)											
5		5.1 Technical specification 5.2 Dimensional standards											
6		6.1 Delivery condition and heat treatment 6.2 Delivery condition code											
7		Use condition and heat treatment											
8		Sample Test piece Heat treatment											
9		Dimensions concerned											
10		Thickness of cladding on each face											
11		Direction of test piece											
12		Temperature											
13		Proof stress											
14		Strength											
15		Elongation											
16		Reduction of area											
17		Hardness											
18		Shear strength											
19		Bending											
20		Impact strength											
21		Temperature											
22		Time											
23		Stress											
24		Elongation											
25		Rupture stress											
26		Elongation at rupture											
27		Notes (see line 98)											

44	External defects	-	See EN 2070-3		
51	Macrostructure	7	Back end defects: see EN 2070-3 Peripheral coarse grain: level A		
61	Internal defects	-	See EN 2070-3		
82	Batch uniformity	-	See EN 2070-3		
		7	Electrical conductivity	$\gamma = 27 \text{ MS/m}$ (typical value)	
		or			
		7	Hardness	95 HB (typical value)	
			$\delta \leq 20 \text{ HB per product}$	$\Delta \leq 30 \text{ HB per batch}$	
<p>ITeH STANDARD PREVIEW (standards.iteh.ai)</p> <p>SIST EN 2636:2001 https://standards.iteh.ai/catalog/standards/sist/7fab9cdc-dbd8-42f5-9d27-f4f120ddd979/sist-en-2636-2001</p>					
97	Designation	-	For extruded bars, see EN 2600. For extruded sections, see relevant drawing		
98	Notes	-	1) Option of press quenching for a or D $\leq 50 \text{ mm}$, subject to the agreement of the purchaser 2) or A $_{50 \text{ mm}} \geq 7 \%$ for a $\leq 10 \text{ mm}$		
99	Typical use	-			