



SLOVENSKI STANDARD
SIST EN 2326:2001

01-januar-2001

Aerospace series - Aluminium alloy AL-P6082-T6 - Extruded bars and sections a or D < or = 200 mm

Aerospace series - Aluminium alloy AL-P6082-T6 - Extruded bars and sections a or D < or = 200 mm

Luft- und Raumfahrt - Aluminiumlegierung AL-P6082-T6 - Stranggepreßte Stangen und Profile a oder D < oder = 200 mm

Série aérospatiale - Alliage d'aluminium AL-P6082-T6 - Barres et profilés filés a ou D < ou = 200 mm

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Ta slovenski standard je istoveten z: EN 2326:1992

ICS:

49.025.20 Aluminij Aluminium

SIST EN 2326:2001 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2326

September 1992

UDC : 669.715-42:629.7

Key words : Aircraft industry, metal bars, metal sections, aluminium alloys, specifications, chemical composition, dimensions, characteristics

English version

Aerospace series
Aluminium alloy AL-P6082-
T6
Extruded bars and sections
a or D \leq 200 mm

Série aéronautique
Alliage d'aluminium AL-P6082-
T6

Barres et profilés filetés
a ou D \leq 200 mm

Luft- und Raumfahrt
Aluminiumlegierung AL-P6082-
T6

Stranggepresste Stangen und Profile
a oder D \leq 200 mm

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This European Standard was accepted by CEN on 1992-03-09. 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, 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 Bruxelles

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 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 March 1993, and conflicting national standards shall be withdrawn at the latest by March 1993.

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In accordance with 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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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, for aerospace applications.

2 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 - Bars and sections
- EN 2134 Round aluminium alloy bars - 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 pre-standard at the date of publication of this standard.

1	Material designation		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	-	-	-	-	-	Base
	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)		Bars and sections Extruded a or D ≤ 200										
5	5.1 Technical specification		EN 2070-3										
	5.2 Dimensional standards		EN 2047, EN 2048, EN 2049, EN 2050, EN 2134, EN 2341										
6	6.1 Delivery condition and heat treatment		T6 525°C ≤ θ ≤ 540°C / WQ θ ≤ 40°C + 160°C ≤ θ ≤ 180°C / 6 h ≤ t ≤ 30 h										
	6.2 Delivery condition code		U										
7	Use condition and heat treatment		T6 Delivery condition										
8	Sample Test piece Heat treatment		Characteristics (standards.iteh.ai) Use condition: T6										
9	Dimensions concerned	mm	a or D ≤ 20				20 < a or D ≤ 150				150 < a or D ≤ 200		
10	Thickness of cladding on each face	%	https://standards.iteh.ai/catalog/standards/sist/1977/aec54-2676-40d8-9618-3515a9d25d62/sist-en-2326-2001										
11	Direction of test piece		L										
12	T	Temperature	θ	°C	Ambient temperature								
13		Proof stress	R _{p0,2}	MPa	≥ 255				≥ 270		≥ 240		
14		Strength	R _m	MPa	≥ 295				≥ 310		≥ 280		
15		Elongation	A	%	≥ 9 ¹⁾				≥ 8		≥ 5		
16		Reduction of area	Z	%	-								
17	Hardness		-										
18	Shear strength	R _c	MPa	-									
19	Bending	k	-	-									
20	Impact strength		-										
21	C	Temperature	θ	°C	-								
22		Time		h	-								
23		Stress	σ _a	MPa	-								
24		Elongation	a	%	-								
25		Rupture stress	σ _R	MPa	-								
26		Elongation at rupture	A	%	-								
27	Notes (see line 98)		1)										

44	External defects	-	See EN 2070-3		
51	Macrostructure	7	Back end defects : see EN 2070-3		
61	Internal defects	-	See EN 2070-3		
82	Batch uniformity	1	See EN 2070-3		
		7	Electrical conductivity	$\gamma = 27 \text{ MS/m}$ (typical value)	
		or			
		7	Hardness	95 HB (typical value)	
			$\delta \leq 20 \text{ HB per product}$	$\Delta \leq 30 \text{ HB per batch}$	
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97	Designation		For extruded bars, see EN 2600. For extruded sections, see relevant drawing.		
98	Notes		1) or $A_{50 \text{ mm}} \geq 7 \%$ for $a \leq 10 \text{ mm}$		
99	Typical use		-		