



SLOVENSKI STANDARD
SIST EN 2695:2001

01-januar-2001

Aerospace series - Aluminium alloy AL-P6081-T6 - Sheet and strip 0,3 mm \leq a \leq 6 mm

Aerospace series - Aluminium alloy AL-P6081-T6 - Sheet and strip 0,3 mm \leq a \leq 6 mm

Luft- und Raumfahrt - Aluminiumlegierung AL-P6081-T6 - Bleche und Bänder 0,3 mm \leq a \leq 6 mm

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Série aérospatiale - Alliage d'aluminium AL-P6081-T6 - Tôles et bandes 0,3 mm \leq a \leq 6 mm

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Ta slovenski standard je istoveten z: EN 2695:1993

ICS:

49.025.20 Aluminij

Aluminium

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en

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EUROPEAN STANDARD

EN 2695

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1993

UDC 669.715-41:629.7

Descriptors: Aircraft industry, aluminium alloys, metal plates, steel strips, specifications, dimensions

English version

**Aerospace series - Aluminium alloy Al-P6081-T6 -
Sheet and strip $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$** Série aéronautique - Alliage d'aluminium
Al-P6081-T6 - Tôles et bandes $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$ Luft- und Raumfahrt - Aluminiumlegierung
Al-P6081-T6 - Bleche und Bänder $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$ **(standards.iteh.ai)**SIST EN 2695:2001<https://standards.iteh.ai/catalog/standards/sist/61f1017f-72be-4b9f-9379-34a6bd570036/sist-en-2695-2001>

This European Standard was approved by CEN on 1993-12-20. 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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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.

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SYMBOLIC NUMBER OF STANDARD

0 Introduction

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

1 Scope

This standard specifies the requirements relating to sheet and strip, in aluminium alloy AL-P6081-, for use in the T6 condition, $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$, 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 2070-2 Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 2: Sheet, strip, formed profiles and plate
- EN 2071 Aerospace series - Sheets in aluminium and aluminium alloys - Thickness $a \leq 6 \text{ mm}$ - Dimensions 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 2599 Aerospace series - Strip in aluminium and aluminium alloys - $0,3 \text{ mm} \leq a \leq 3,2 \text{ mm}$ - Dimensions 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	Material designation		Aluminum alloy AL-P6081-											
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti		Others		Al
												Each	Total	
		min.	0,7	-	-	0,10	0,8	-	-	-		-	-	Base
	max.	1,1	0,50	0,10	0,45	1,0	0,10	0,20	0,15		0,05	0,15		
3	Method of melting		-											
4	Form		Sheet and strip											
	Method of production		Rolled											
	Limit dimensions (mm)		$0,3 \leq a \leq 6$											
5	5.1 Technical specification		EN 2070-2											
	5.2 Dimensional standards		EN 2071, EN 2599											
6	6.1 Delivery condition and heat treatment		T4 $530^{\circ}\text{C} \leq \theta \leq 540^{\circ}\text{C} / \text{WQ } \theta \leq 40^{\circ}\text{C}$ $+ \theta = \text{ambient} / t \geq 10 \text{ d}$						T6 $530^{\circ}\text{C} \leq \theta \leq 540^{\circ}\text{C} / \text{WQ } \theta \leq 40^{\circ}\text{C}$ $+ 165^{\circ}\text{C} \leq \theta \leq 175^{\circ}\text{C} / 7 \text{ h } st \leq 9 \text{ h}$					
	6.2 Delivery condition code		K						U					
7	Use condition and heat treatment		T6 Delivery condition $+ 165^{\circ}\text{C} \leq \theta \leq 175^{\circ}\text{C} / 7 \text{ h } st \leq 9 \text{ h}$						T6 Delivery condition					

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8	Sample Test piece Heat treatment		Characteristics										
9	Dimensions concerned	mm	SIST EN 2695:2001 Use condition : T6 $0,3 \leq a \leq 6$										
10	Thickness of cladding on each face	%	-										
11	Direction of test piece		LT										
12	Temperature	θ °C	Ambient										
13	Proof stress	$R_{p0,2}$ MPa	≥ 240										
14	Strength	R_m MPa	≥ 280										
15	Elongation	A %	$A_{50 \text{ mm}} \geq 10$										
16	Reduction of area	Z %	-										
17	Hardness		-										
18	Shear strength	R_c MPa	-										
19	Bending	k -	-										
20	Impact strength		-										
21	Temperature	θ °C	-										
22	Time	h	-										
23	Stress	σ_B MPa	-										
24	Elongation	a %	-										
25	Rupture stress	σ_R MPa	-										
26	Elongation at rupture	A %	-										
27	Notes (see line 98)		-										

44	External defects	-	See EN 2070-2		
82	Batch uniformity	1	See EN 2070-2		
		5		T4	T6
		7	Hardness	60 HB (typical value)	85 HB (typical value)
				$\delta \leq 16$ HB per product	$\delta \leq 20$ HB per product
		$\Delta \leq 24$ HB per batch	$\Delta \leq 30$ HB per batch		
97	Designation	-	See EN 2600		
98	Notes	-	-		
99	Typical use	-	-		

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