

SLOVENSKI STANDARD

SIST EN 2696:2001

01-januar-2001

**Aerospace series - Aluminium alloy AL-P7075-T6 or T62 - Sheet and strip 0,4 mm
≤ a ≤ 6 mm**

Aerospace series - Aluminium alloy AL-P7075-T6 or T62 - Sheet and strip 0,4 mm <= a <= 6 mm

Luft- und Raumfahrt - Aluminiumlegierung AL-P7075-T6 oder T62 - Bleche und Bänder
0,4 mm <= a <= 6 mm **iTeh STANDARD PREVIEW**

Série aérospatiale - Alliage d'aluminium AL-P7075-T6 ou T62 - Tôles et bandes 0,4 mm
≤ 4 ≤ 6 mm **(standards.iteh.ai)** SIST EN 2696:2001

Ta slovenski standard je istoveten z: EN 2696:1993

ICS:

49.025.20 Aluminij Aluminium

SIST EN 2696:2001 en

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SIST EN 2696:2001

<https://standards.iteh.ai/catalog/standards/sist/4858b37c-3366-4370-bd93-6779d7b6a2a3/sist-en-2696-2001>

EUROPEAN STANDARD

EN 2696

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-P7075-T6
or T62 - Sheet and strip $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$**

Série aérospatiale - Alliage d'aluminium
AL-P7075-T6 ou T62 - Tôles et bandes $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$

Luft- und Raumfahrt - Aluminiumlegierung
AL-P7075-T6 oder T62 - Bleche und Bänder $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$

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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.

CEN

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

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

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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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A L I N E R W I T H S I S T E N 2 6 9 6 : 2 0 0 1 U S E D A
T H I S S T A N D A R D O F F I C I A L A N D P R O F E S S I O N A L
S P E C I F I C A T I O N S O F T H E I T E H S I S T E N 2 6 9 6 : 1 9 9 3
S T A N D A R D .

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S Y N C H R O N I Z A T I O N O F T H E S T A N D A R D

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-P7075-, for use in the T6 or T62 condition, $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$, 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 materials standard - 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	https://standards.iteh.ai/catalog/standards/sist/4858b37e-3366-4370-bd93-6779d7b6a2a3/sist-en-2696-2001 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

6	8.1 Delivery condition and heat treatment	F As rolled	O Annealed	T6 $460^{\circ}\text{C} \leq \theta \leq 485^{\circ}\text{C}$ / WQ $\theta \leq 40^{\circ}\text{C}$ $+ 115^{\circ}\text{C} \leq \theta \leq 125^{\circ}\text{C}$ / 20h $\leq t \leq 30\text{h}$	T6 $460^{\circ}\text{C} \leq \theta \leq 485^{\circ}\text{C}$ / WQ $\theta \leq 40^{\circ}\text{C}$ $+ 115^{\circ}\text{C} \leq \theta \leq 125^{\circ}\text{C}$ / 20h $\leq t \leq 30\text{h}$
	8.2 Delivery condition code	F	A	P	U
7	Use condition and heat treatment	T62 Delivery condition $+ 460^{\circ}\text{C} \leq \theta \leq 485^{\circ}\text{C}$ / WQ $\theta \leq 40^{\circ}\text{C}$ $+ 115^{\circ}\text{C} \leq \theta \leq 125^{\circ}\text{C}$ / 20h $\leq t \leq 30\text{h}$			T6 Delivery condition

Characteristics

8	Sample Test piece Heat treatment			SIST EN 2696:2001 https://standards.itec.ai/catalog/standards/sist/4858b37c-3366-4370			
9	Dimensions concerned	mm		0,4 ≤ a ≤ 6	0,4 ≤ a ≤ 0,8	0,8 < a ≤ 3,2	3,2 < a ≤ 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	≤ 145	≥ 460	≥ 470	≥ 475
14	T Strength	R _m	MPa	≤ 275	≥ 525	≥ 540	≥ 540
15	Elongation	A	%	A _{50 mm} ≥ 10	A _{50 mm} ≥ 7	A _{50 mm} ≥ 8	A _{50 mm} ≥ 8
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 _a	MPa		-		
24	C Elongation	a	%		-		
25	Rupture stress	σ _R	MPa		-		
26	Elongation at rupture	A	%		-		
27	Notes (see line 98)				1)		

44	External defects	-	See EN 2070-2		
82	Batch uniformity	1	See EN 2070-2		
		5	T6		
		7	Electrical conductivity	$\gamma = 19,0 \text{ MS/m}$ (typical value)	
		7	Hardness	or 160 HB (typical value)	
				$\delta \leq 20 \text{ HB per product}$	$\Delta \leq 30 \text{ HB per batch}$

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97	Designation	-	See EN 2600		
98	Notes	-	1) For delivery in the T6 condition the test piece heat treatment condition is T6 unless otherwise specified on the order.		
99	Typical use	-	-		