



SLOVENSKI STANDARD
SIST EN 2696:2005

01-november-2005

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SIST EN 2696:2001

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

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Luft- und Raumfahrt - Aluminiumlegierung AL-P7075-T6 oder T62 - Bleche und Bänder - 0,4 mm <a <6 mm

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Série aérospatiale - Alliage d'aluminium AL-P7075-T6 ou T62 - Tôles et bandes - 0,4 mm <a <6 mm

Ta slovenski standard je istoveten z: EN 2696:2005

ICS:

49.025.20 Aluminij

Aluminium

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2696

June 2005

ICS 49.025.20

Supersedes EN 2696:1993

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 - $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$

This European Standard was approved by CEN on 22 April 2005.

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.

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 the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 2696:2005 (E)

Foreword

This document (EN 2696:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has 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 December 2005, and conflicting national standards shall be withdrawn at the latest by December 2005.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2696:1993.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

This standard has been prepared in accordance with EN 4500-2.

1 Scope

This standard specifies the requirements relating to:

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

for aerospace application.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 4258, *Aerospace series — Metallic materials — General organization of standardization — Links between types of EN standards and their use.*

EN 4400-2, *Aerospace series — Aluminium and aluminium alloy wrought products — Technical specification — Part 2: Sheet and strip.*¹⁾

EN 4500-2, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 2: Specific rules for aluminium, aluminium alloys and magnesium alloys.*¹⁾

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

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1	Material designation		Aluminium alloy AL-P7075-										
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
											Each	Total	
		min.	-	-	1,2	-	2,1	0,18	5,1	-	-	-	-
max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20	0,05	0,15			
3	Method of melting		-										
4.1	Form		Sheet and strip										
4.2	Method of production		Rolled										
4.3	Limit dimension(s)	mm	$0,4 \leq a \leq 6$										
5	Technical specification		EN 4400-2										

6.1	Delivery condition	F	O	T6	T6
	Heat treatment	-	-	$460\text{ °C} \leq \theta \leq 485\text{ °C} / \text{WQ } \theta \leq 40\text{ °C}$ $+ 115\text{ °C} \leq \theta \leq 135\text{ °C} / 20\text{ h} \leq t \leq 30\text{ h}$	$460\text{ °C} \leq \theta \leq 485\text{ °C} / \text{WQ } \theta \leq 40\text{ °C}$ $+ 115\text{ °C} \leq \theta \leq 135\text{ °C} / 20\text{ h} \leq t \leq 30\text{ h}$
6.2	Delivery condition code	F	A	P	U
7	Use condition	T62			T6
	Heat treatment	Delivery condition $+ 460\text{ °C} \leq \theta \leq 485\text{ °C} / \text{WQ } \theta \leq 40\text{ °C}$ $+ 115\text{ °C} \leq \theta \leq 135\text{ °C} / 20\text{ h} \leq t \leq 30\text{ h}$			Delivery condition

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Characteristics

8.1	Test sample(s)		See EN 4400-2.			
8.2	Test piece(s)		See EN 4400-2.			
8.3	Heat treatment		Delivery condition: O		Use condition: T6 or T62	
9	Dimensions concerned	mm	$0,4 \leq a \leq 6$	$0,4 \leq a \leq 0,8$	$0,8 < a \leq 3,2$	$3,2 < a \leq 6$
10	Thickness of cladding on each face	%	-	-	-	-
11	Direction of test piece		LT	LT	LT	LT
12	Temperature	θ	°C	Ambient	Ambient	Ambient
13	Proof stress	$R_{p0,2}$	MPa	≤ 145	≥ 460	≥ 470
14	T Strength	R_m	MPa	≤ 275	≥ 525	≥ 540
15	Elongation	A	%	$A_{50\text{ mm}} \geq 10$	$A_{50\text{ mm}} \geq 7$	$A_{50\text{ mm}} \geq 8$
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	C Stress	σ_a	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 4400-2.				
82	Batch uniformity	–	See EN 4400-2.				
		5	T6				
		7	Electrical conductivity	γ	MS/m	19,0 (Typical value)	
		or					
		7	Hardness	HB	160 (Typical value)		
	$\delta \leq 20$ per product	$\Delta \leq 30$ per batch					
95	Marking inspection	–	See EN 4400-2.				
96	Dimensional inspection	–	See EN 4400-2.				
98	Notes	–	–				
99	Typical use	–	–				

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100	-	Product qualification	-	See EN 4400-2.
				Qualification programme to be agreed between manufacturer and purchaser.

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