SLOVENSKI STANDARD
SIST EN 2072:2001

01-januar-2001

Aerospace series - Aluminium AL-P1050A H14 - Sheet and strip 0,4 mm <= a <= 6mm

Aerospace series - Aluminium AL-P1050A H14 - Sheet and strip 0,4 mm <= a <= 6mm

Luft- und Raumfahrt - Aluminium AL-P1050A H14 - Bleche und Bänder 0,4 mm <= a <= 6 mm

Série aérospatiale - Aluminium AL-P1050A H14 - Tôles et bandes 0,4 mm <= a <= 6 mm

Ta slovenski standard je istoveten z: **EN 2072:1993**

ICS:

49.025.20 Aluminij Aluminium

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EUROPEAN STANDARD

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

English version

Aerospace series - Aluminium AL-P1050A H14 - Sheet and strip 0,4 mm ⩽ a ⩽ 6 mm

Série aérospatiale - Aluminium AL-P1050A H14 - Tôles et bandes 0,4 mm ⩽ a ⩽ 6 mm

Luft- und Raumfahrt - Aluminium Al-P1050A H14 - Bleche und Bänder 0,4 ⩽ a ⩽ 6 mm

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.

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CEN

European 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of an identical text or by endorsement, at the latest by June 1994, and conflicting national standards shall be withdrawn at the latest by June 1994.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.

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 AL-P1050A, for use in the H14 condition, 0,4 mm ≤ a ≤ 6 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 ≤ 6 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 mm ≤ a ≤ 3,2 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		Aluminium AL-P1050A										
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Zn	Ti		Others		Al
											Each	Total	
		min.	–	–	–	–	–	–	–		–	–	99,50
		max.	0,25	0,40	0,05	0,05	0,05	0,07	0,05		0,03	–	–
3	Method of melting		–										
4	Form Method of production Limit dimensions (mm)		Sheet and strip Rolled $0,4 \leq a \leq 6$										
5	5.1 Technical specification		EN 2070-2										
	5.2 Dimensional standards		EN 2071, EN 2599										

6	6.1 Delivery condition and heat treatment	H14 Strain-hardened
	6.2 Delivery condition code	U
7	Use condition and heat treatment	H14 Delivery condition

					Characteristics
8	Sample Test piece Heat treatment				– – Use condition : H14
9	Dimensions concerned			mm	$0,4 \leq a \leq 6$
10	Thickness of cladding on each face			%	–
11	Direction of test piece				LT
12	T	Temperature	θ	°C	Ambient
13	T	Proof stress	$R_{p0,2}$	MPa	≥ 80
14	T	Strength	R_m	MPa	$100 \leq R_m \leq 140$
15	T	Elongation	A	%	$A_{50\ mm} \geq 5$
16	T	Reduction of area	Z	%	–
17	Hardness				–
18	Shear strength		R_c	MPa	–
19	Bending		k	–	–
20	Impact strength				–
21	C	Temperature	θ	°C	–
22	C	Time		h	–
23	C	Stress	σ_a	MPa	–
24	C	Elongation	a	%	–
25	C	Rupture stress	σ_R	MPa	–
26	C	Elongation at rupture	A	%	–
27	Notes (see line 98)				–

44	External defects	–	See EN 2070-2
97	Designation	–	See EN 2600
98	Notes	–	–
99	Typical use	–	–