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IRISH STANDARD

I.S. EN 4324:2002

ICS 49.025.20

National Standards
Authority of Ireland
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AEROSPACE SERIES - ALUMINIUM ALLOY AL-W42201 - FILLER METAL FOR WELDING - ROD

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on March 1, 2002

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4324

December 2001

ICS 49.025.20

English version

Aerospace series - Aluminium alloy AL-W42201 - Filler metal for welding - Rod

Série aérospatiale - Alliage d'aluminium AL-W42201 - Métal d'apport de soudage - Baguette

Luft- und Raumfahrt - Aluminiumlegierung AL-W42201 - Schweißzusatz - Stäbe

This European Standard was approved by CEN on 2 May 2001.

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EUROPAISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN 4324:2001 E

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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 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 standards, either by publication of an identical text or by endorsement, at the latest by June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

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

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0 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-W42201
Filler metal for welding
Rod

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 2043 Aerospace series – Metallic materials – General requirements for semi-finished product qualification (excluding forgings and castings) [1)]

EN 3879 Aerospace series – Metallic materials – Filler metal for welding – Technical specification [1)]

EN 4258 Aerospace series – Metallic materials – General organization of standardization – Links between types of EN standards and their use

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-W42201											
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Zn	Ti	Be	H_2	Others		Al
												Each	Total	
		min.	6,5	–	–	–	0,50	–	0,05	–	–	–	–	Base
		max.	7,5	0,20	0,20	0,10	0,8	0,10	0,20	0,07	[a]	0,05	0,15	
3	Method of melting		–											
4.1	Form		Rod											
4.2	Method of production		Cast											
4.3	Limit dimension(s)	mm	–											
5	Technical specification		EN 3879											

6.1	Delivery condition	As cast
	Heat treatment	–
6.2	Delivery condition code	U
7	Use condition	Delivery condition
	Heat treatment	–

Characteristics

8.1	Test sample(s)				–
8.2	Test piece(s)				–
8.3	Heat treatment				–
9	Dimensions concerned			mm	–
10	Thickness of cladding on each face			%	–
11	Direction of test piece				–
12	T	Temperature	θ	°C	–
13		Proof stress	$R_{p0,2}$	MPa	–
14		Strength	R_m	MPa	–
15		Elongation	A	%	–
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)				[a]

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