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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 4058:2002

ICS 49.025.30

AEROSPACE SERIES - FILLER RODS AND FILLER WIRES FOR WELDING IN TITANIUM AND TITANIUM ALLOYS - DIAMETER 0,5 MM ≤ D ≤ 5,0 MM - DIMENSIONS

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4058

September 2001

ICS 49.025.30

English version

Aerospace series - Filler rods and filler wires for welding in titanium and titanium alloys - Diameter 0,5 mm ≤ D ≤ 5,0 mm - Dimensions

Série aérospatiale - Baguettes et fils d'apport de soudage en titane et alliages de titane - Diamètres 0,5 mm ≤ D ≤ 5,0 mm - Dimensions

Luft- und Raumfahrt - Schweißzusatzstäbe und -drähte aus Titan und Titanlegierungen - Durchmesser 0,5 mm ≤ D ≤ 5,0 mm - Maße

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of an identical text or by endorsement, at the latest by March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.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

1 Scope

This standard specifies the dimensions and tolerances of:

Filler rods and filler wires for welding
in titanium and titanium alloys
Diameter 0,5 mm ≤ D ≤ 5,0 mm

for aerospace applications.

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

3 Form

See figure 1.

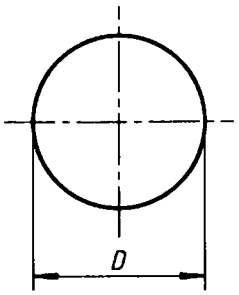

Figure 1

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4 Recommended dimensions and mass

4.1 Diameter and mass

See table 1.

Table 1

Nominal *D* mm		Section mm^2	Linear mass [a] g/m
Rod	Wire		
–	0,5	0,20	9
–	0,6	0,28	13
0,8	0,8	0,50	23
–	0,9	0,64	29
1,0	1,0	0,79	36
1,2	1,2	1,13	51
1,6	1,6	2,01	91
2,0	2,0	3,14	141
2,4	–	4,52	203
3,0	3,0	7,07	318
3,2	3,2	8,04	362
4,0	–	12,57	566
5,0	–	19,63	883

[a] For information, calculated with a density of 4,5 kg/dm^3

4.2 Length

The order shall specify if bars are to be supplied in fixed or in random lengths. In the event of a supply of random lengths the minimum and maximum values for the lengths shall be specified on the order.

Length of rods ≤ 1 000 mm.

Length of wires: to be specified on the order.

5 Tolerances

5.1 Dimensional tolerances

5.1.1 Diameter

5.1.1.1 Rods

See table 2.

Table 2

Dimensions in millimetres

Diameter	Tolerance
$0,8 \leq D \leq 5,0$	± 0,1

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