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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 3480:2007

ICS 49.025.10

AEROSPACE SERIES - STEEL FE-PA3601 (X6CRNITI18-10) - AIR MELTED - SOFTENED - PLATE - 6 MM < A ≤ 50 MM - 500 MPA ≤ RM ≤ 700 MPA

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This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
21 September 2007

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3480

August 2007

ICS 49.025.10

English Version

Aerospace series - Steel FE-PA3601 (X6CrNiTi18-10) - Air melted - Softened - Plate - 6 mm < a ≤ 50 mm - 500 MPa ≤ Rm ≤ 700 MPa

Série aérospatiale - Acier FE-PA3601 (X6CrNiTi18-10) - Élaboré à l'air - Adouci - Plaques - 6 mm < a ≤ 50 mm - 500 MPa ≤ Rm ≤ 700 MPa

Luft- und Raumfahrt - Stahl FE-PA3601 (X6CrNiTi18-10) - Lufterschmolzen - Weichgeglüht - Platten - 6 mm < a ≤ 50 mm - 500 MPa ≤ Rm ≤ 700 MPa

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Foreword

This document (EN 3480:2007) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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of an identical text or by endorsement, at the latest by February 2008, and conflicting national standards shall be withdrawn at the latest by February 2008.

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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 4500-5.

1 Scope

This standard specifies the requirements relating to:

Steel FE-PA3601 (X6CrNiTi18-10)
Air melted
Softened
Plate
6 mm < a ≤ 50 mm
500 MPa ≤ R_m ≤ 700 MPa

for aerospace applications.

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 2951, *Aerospace series — Metallic materials — Test method — Micrographic determination of content of non-metallic inclusions.* [1)]

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

EN 4500-5, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 5: Specific rules for steels.* [1)]

EN 4700-1, *Aerospace series — Steel and heat resisting alloy — Wrought products — Technical specification — Part 1: Plate, sheet and strip.* [1)]

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

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1	Material designation		Steel FE-PA3601 (X6CrNiTi18-10)								
2	Chemical composition %	Element	C	Si	Mn	S [a]	P [a]	Cr [a]	Ni [a]	Ti	Fe
		min.	–	–	–	–	–	17,0	9,0	5 × C	Base
		max.	0,08	1,00	2,00	0,030	0,045	19,0	12,0	0,70	
3	Method of melting		Air melted								
4.1	Form		Plate								
4.2	Method of production		Rolled								
4.3	Limit dimension(s)	mm	$6 < a \leq 50$								
5	Technical specification		EN 4700-1								

6.1	Delivery condition	Softened
	Heat treatment	1 050 °C ≤ θ ≤ 1 100 °C WQ/AQ
6.2	Delivery condition code	U
7	Use condition	Delivery condition
	Heat treatment	–

Characteristics

8.1	Test sample(s)				See EN 4700-1.
8.2	Test piece(s)				See EN 4700-1.
8.3	Heat treatment				Delivery condition
9	Dimensions concerned			mm	$6 < a \leq 50$
10	Thickness of cladding on each face			%	–
11	Direction of test piece				L - LT
12	T	Temperature	θ	°C	Ambient
13	T	Proof stress	$R_{p0,2}$	MPa	≥ 200
14	T	Strength	R_m	MPa	$500 \leq R_m \leq 700$
15	T	Elongation	A	%	≥ 40
16	T	Reduction of area	Z	%	–
17	Hardness				HV ≤ 207
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)				a

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