SLOVENSKI STANDARD
SIST EN 2573:2007

01-november-2007

Aeronavtika - Jeklo FE-PA3601 (X6CrNiTi18-10) - Mehļano - Rm <= 780 MPa - Ģica - 0,25 mm <= De <= 3 mm

Aerospace series - Steel FE-PA3601 (X6CrNiTi18-10) - Softened - Rm <= 780 MPa - Wire - 0,25 mm <= De <= 3 mm

Luft- und Raumfahrt - Stahl FE-PA3601 (X6CrNiTi18-10) - Weichgeglüht - Rm <= 780 MPa - Drähte - 0,25 mm <= De <= 3 mm

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Série aérospatiale - Acier FE-PA3601 (X6CrNiTi18-10) - Adouci - Rm <= 780 MPa - Fils - 0,25 mm <= De <= 3 mm

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Ta slovenski standard je istoveten z: **EN 2573:2007**

ICS:

49.025.10	Jekla	Steels

SIST EN 2573:2007 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2573

August 2007

ICS 49.025.10

English Version

Aerospace series - Steel FE-PA3601 (X6CrNiTi18-10) - Softened - Rm ≤ 780 MPa - Wire - 0,25 mm ≤ De ≤ 3 mm

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

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Foreword

This document (EN 2573:2007) 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of an identical text or by endorsement, at the latest by February 2008, and conflicting national standards shall be withdrawn at the latest by February 2008.

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.

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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)
Softened
$R_m \leq 780$ MPa
Wire
0,25 mm $\leq D_e \leq$ 3 mm

for aerospace applications.

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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.

SIST EN 2573:2007
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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 4700-4, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 4: Wire.* 1)

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

1	Material designation		Steel FE-PA3601 (X6CrNiTi18-10)								
2	Chemical composition %	Element	C	Si	Mn	S	P	Cr	Ni	Ti	Fe
		min.	–	–	–	–	–	17	9	5 × C	Base
		max.	0,08	1	2	0,030	0,045	19	12	0,70	
3	Method of melting		Air melted								
4.1	Form		Wire								
4.2	Method of production		Drawn								
4.3	Limit dimension(s)	mm	$0,25 \leq D_e \leq 3$								
5	Technical specification		EN 4700-4								

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

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Characteristics

8.1	Test sample(s)				See EN 4700-4.
8.2	Test piece(s)				See EN 4700-4.
8.3	Heat treatment				Delivery condition
9	Dimensions concerned			mm	$0,25 \leq D_e \leq 3$
10	Thickness of cladding on each face			%	–
11	Direction of test piece				L
12	T	Temperature	θ	°C	Ambient
13	T	Proof stress	$R_{p0,2}$	MPa	–
14	T	Strength	R_m	MPa	≤ 780
15	T	Elongation	A	%	≥ 40
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	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)				–

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37	Reverse bend	–	EN 4700-4
		7	9 bend minimum
95	Marking inspection	–	See EN 4700-4.
96	Dimensional inspection	–	See EN 4700-4.
98	Notes	–	Maximum temperature using: 600 °C
99	Typical use	–	Locking wire

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100	–	Product qualification	–	See EN 4700-4.
				Qualification programme to be agreed between manufacturer and purchaser.

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