
Aeronavtika - Jeklo X6CrNiTi18-10 (1.4541) - Taljeno na zraku - Popuščano - Žice - 0,25 mm ≤ De ≤ 3 mm - Rm ≤ 780 MPa

Aerospace series - Steel X6CrNiTi18-10 (1.4541) - Air melted - Softened - Wires - 0,25 mm ≤ De ≤ 3 mm - Rm ≤ 780 MPa

Luft- und Raumfahrt - Stahl X6CrNiTi18-10 (1.4541) - Lufterschmolzen - Weichgeglüht - Drähte - 0,25 mm ≤ De ≤ 3 mm - Rm ≤ 780 MPa

Série aérospatiale - Acier X6CrNiTi18-10 (1.4541) - Elaboré à l'air - Adouci - Fils - 0,25 mm ≤ De ≤ 3 mm - Rm ≤ 780 MPa

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Ta slovenski standard je istoveten z: prEN 2573

ICS:

49.025.10	Jekla	Steels
77.140.65	Jeklene žice, jeklene vrvi in verige	Steel wire, wire ropes and link chains

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 2573

September 2020

ICS 49.025.10

Will supersede EN 2573:2007

English Version

**Aerospace series - Steel X6CrNiTi18-10 (1.4541) - Air
melted - Softened - Wires - $0,25 \text{ mm} \leq De \leq 3 \text{ mm}$ - $R_m \leq$
780 MPa**

Série aérospatiale - Acier X6CrNiTi18-10 (1.4541) -
Élaboré à l'air - Adouci - Fils - $0,25 \text{ mm} \leq De \leq 3 \text{ mm}$ -
 $R_m \leq 780 \text{ MPa}$

Luft- und Raumfahrt - Stahl X6CrNiTi18-10 (1.4541) -
Lufterschmolzen - Weichgeglüht - Drähte - $0,25 \text{ mm} \leq$
 $De \leq 3 \text{ mm}$ - $R_m \leq 780 \text{ MPa}$

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 2573:2020) 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-STAN, prior to its presentation to CEN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 2573:2007.

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Introduction

This document 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 document has been prepared in accordance with EN 4500-005.

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1 Scope

This document specifies the requirements relating to:

Steel X6CrNiTi18-10 (1.4541)

Air melted

Softened

Wires

$0,25 \text{ mm} \leq D_e \leq 3 \text{ mm}$

$R_m \leq 780 \text{ MPa}$

for aerospace application.

W.nr: 1.4541.

ASD-STAN designation: FE-PA3601.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 4700-004, *Aerospace series - Steel and heat resisting alloys - Wrought products - Technical specification - Part 004: Wire*

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3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Requirements

See Table 1.

Table 1 — Requirements for steel X6CrNiTi18-10 (1.4541)

1	Material designation	Steel X6CrNiTi18-10 (1.4541)									
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	Wires									
4.2	Method of production	Drawn									
4.3	Limit dimension(s)	mm	$0,25 \leq D_e \leq 3$								
5	Technical specification	EN 4700-004									

6.1	Delivery condition	Softened									
	Heat treatment	$1\ 050\ ^\circ\text{C} \leq \theta \leq 1\ 100\ ^\circ\text{C}/\text{AC}$ or WQ									
6.2	Delivery condition code	U									
7	Use condition	Delivery condition									
	Heat treatment	—									

Characteristics

8.1	Test sample(s)	See EN 4700-004.										
8.2	Test piece(s)	See EN 4700-004.										
8.3	Heat treatment	Delivery condition										
9	Dimensions concerned	mm	$0,25 \leq D_e \leq 3$									
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10	Thickness of cladding on each face	%	—									
11	Direction of test piece	L										
12	Temperature	θ	$^\circ\text{C}$	Ambient								
13	Proof stress	$R_{p0,2}$	MPa	—								
14	T	Strength	R_m	MPa	≤ 780							
15		Elongation	A	%	≥ 40							
16		Reduction of area	Z	%	—							
17	Hardness	—										
18	Shear strength	R_c	MPa	—								
19	Bending	k	—	—								
20	Impact strength	—										

21	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)			—

37	Reverse bend	—	EN 4700-004
		7	9 bends minimum
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95	Marking inspection	—	See EN 4700-004.
96	Dimensional inspection	—	See EN 4700-004.
98	Notes	—	—
99	Typical use	—	Locking wire

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100	—	Product qualification	—	See EN 4700-004.
				Qualification programme to be agreed between manufacturer and purchaser.

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