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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 2573:2022 sisaldab Euroopa standardi EN 2573:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 2573:2022 consists of the English text of the European standard EN 2573:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 19.10.2022.	Date of Availability of the European standard is 19.10.2022.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 49.025.10

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2573

October 2022

ICS 49.025.10

Supersedes EN 2573:2007

English Version

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

Série aérospatiale - Acier X6CrNiTi18-10 (1.4541) - Élaboré à l'air - Adouci - Fils - 0,25 mm ≤ D_e ≤ 3 mm - R_m ≤ 780 MPa

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

This European Standard was approved by CEN on 8 May 2022.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

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

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European foreword

This document 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 document 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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2573:2007.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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.

1 Scope

This document specifies the requirements relating to:

Steel X6CrNiTi18–10 (1.4541)

Air melted

Softened

Wires

0,25 mm ≤ D_e ≤ 3 mm

R_m ≤ 780 MPa

for aerospace applications.

Material number: 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*

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 https://www.electropedia.org/

4 Requirements

According to 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								