
Aeronavtika - Sorniki, normalna šestroba glava, tanko steblo, dolg navoj, iz toplotno odpornega jekla FE-PA2601 (A286), posrebreni - Klasifikacija: 1100 MPa/650 °C

Aerospace series - Bolts, normal hexagon head, relieved shank, long thread, in heat resisting steel FE-PA2601 (A286), silver plated - Classification: 1 100 MPa/650 °C

Luft- und Raumfahrt - Sechskantschrauben, Dünnschaft, langes Gewinde, aus hochwarmfestem Stahl FE-PA2601 (A286), versilbert - Klasse: 1 100 MPa/650 °C

Série aérospatiale - Vis à tête hexagonale normale, tige dégagée, filetage long, en acier résistant à chaud FE-PA2601 (A286), argentées - Classification : 1 100 MPa/650 °C

Ta slovenski standard je istoveten z: prEN 3687

<https://standards.iteh.ai/catalog/standards/sist/f3677975-27b1-4d14-a6e1-8be1687a028a/osist-pren-3687-2024>

ICS:

49.030.20 Sorniki, vijaki, stebelni vijaki Bolts, screws, studs

oSIST prEN 3687:2024

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 3687

April 2024

ICS 49.030.20

Will supersede EN 3687:2010

English Version

**Aerospace series - Bolts, normal hexagon head, relieved
shank, long thread, in heat resisting steel FE-PA2601
(A286), silver plated - Classification: 1 100 MPa/650 °C**

Série aéronautique - Vis à tête hexagonale normale, fût
dégagé filetage long, en acier résistant à chaud FE-
PA2601 (A286), argentées - Classification: 1 100
MPa/650 °C

Luft- und Raumfahrt - Sechskantschrauben,
Dünnschaft, langes Gewinde, aus hochwarmfestem
Stahl FE-PA2601 (A286), versilbert - Klasse: 1 100
MPa/650 °C

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.

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.

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.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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

Contents	Page
European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Required characteristics	4
4.1 Configuration – Dimensions – Tolerances	4
4.2 Surface roughness	4
4.3 Material	5
4.4 Surface treatment.....	5
5 Designation	11
6 Marking	11
7 Technical specification	11

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 3687:2024](https://standards.iteh.ai/catalog/standards/sist/f3677975-27b1-4d14-a6e1-8be1687a028a/osist-pren-3687-2024)

<https://standards.iteh.ai/catalog/standards/sist/f3677975-27b1-4d14-a6e1-8be1687a028a/osist-pren-3687-2024>

European foreword

This document (prEN 3687:2024) has been prepared by 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 is currently submitted to the CEN Enquiry.

This document will supersede EN 3687:2010.

prEN 3687:2024 includes the following significant technical changes with respect to EN 3687:2010:

- the surface roughness requirements have been replaced from Figure 1 to the text;
- values for S at diameter code 050 in Table 1 have been corrected.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 3687:2024](https://standards.iteh.ai/catalog/standards/sist/f3677975-27b1-4d14-a6e1-8be1687a028a/osist-pren-3687-2024)

<https://standards.iteh.ai/catalog/standards/sist/f3677975-27b1-4d14-a6e1-8be1687a028a/osist-pren-3687-2024>

1 Scope

This document specifies the characteristics of silver-plated Bolts normal Hexagon Head with relieved shank and long thread, in heat resisting steel FE-PA92HT (A286), tensile strength class 1 100 MPa at room temperature. The maximum test temperature of the material is 650 °C.

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 2424, *Aerospace series — Marking of aerospace products*

EN 2786, *Aerospace series — Electrolytic silver plating of fasteners*

EN 3685, *Aerospace series — Bolts in heat resisting steel FE-PA2601 (A286) — Classification: 1 100 MPa/650 °C — Technical specification*

EN 3761, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Bar for forged fasteners — $D \leq 50$ mm — $1\ 100\text{ MPa} \leq R_m \leq 1\ 300\text{ MPa}$*

ISO 3353-1, *Aerospace — Lead and runout threads — Part 1: Rolled external threads*

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology 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 Required characteristics

4.1 Configuration – Dimensions – Tolerances

The configuration shall be in accordance with Figure 1. Dimensions and tolerances shall conform with the values shown in Figure 1, in Table 1 and Table 2 after silver plating.

4.2 Surface roughness

Surface roughness shall be as follows:

- bearing surfaces (head bearing area, shank, thread): $R_{\text{max}} = 0,8\ \mu\text{m}$;
- all other surfaces: $R_{\text{max}} = 3,2\ \mu\text{m}$, refer to ASME B46.1.

The specified values are applicable before silver plating.