



SLOVENSKI STANDARD

SIST EN 3196:2001

01-januar-2001

Aerospace series - Nuts, hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Aerospace series - Nuts, hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Luft- und Raumfahrt - Sechskantmuttern, selbstsichernd, aus hochwarmfestem Stahl FE-PA92HT (A286), versilbert - Klasse: 1 100 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Ecrous hexagonaux, à freinage interne, en acier résistant a chaud FE-PA92HT (A286), argentés - Classification: 1 100 MPa (a température ambiante) / 425 °C

Ta slovenski standard je istoveten z: EN 3196:1994

ICS:

49.030.30 Matice Nuts

SIST EN 3196:2001 en

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

SIST EN 3196:2001

<https://standards.iteh.ai/catalog/standards/sist/9d1e8b22-6bfb-4634-b40f-41edf2c2287f/sist-en-3196-2001>

EUROPEAN STANDARD

EN 3196

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1994

UDC 621.882.31-034.018.44:629.7

Descriptors: Aircraft industry, fastener, hexagonal, nut, self locking nut, heat resistant steel, classification, characteristic, dimension, screw thread, code, designation, marking

English version

**Aerospace series - Nuts, hexagonal, self-locking,
in heat resisting steel FE-PA92HT (A286), silver
plated - Classification: 1 100 MPa (at ambient
temperature) / 425 °C**

iTeh STANDARD PREVIEW

Série aéronautique - Eclous hexagonaux, à
freinage interne, en acier résistant à chaud
FE-PA92HT (A286), argentés - Classification: 1
100 MPa (à température ambiante) / 425 °C

Luft- und Raumfahrt - Sechskantmuttern,
selbstsichernd, aus hochwarmfestem Stahl
FE-PA92HT (A286), versilbert - Klasse 1: 1 100
MPa (bei Raumtemperatur) / 425 °C

SIST EN 3196:2001

<https://standards.iteh.ai/catalog/standards/sist/9d1e8b22-6bfb-4634-b40f-41edf2c2287f/sist-en-3196-2001>

This European Standard was approved by CEN on 1994-08-17. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This standard was submitted for Formal Vote, and the result was positive.

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 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

SIST EN 3196:2001

[https://standards.iteh.ai/catalog/standards/sist/9d1e8b22-6bfb-4634-b40f-](https://standards.iteh.ai/catalog/standards/sist/9d1e8b22-6bfb-4634-b40f-41edf2c2287f/sist-en-3196-2001)

41edf2c2287f/sist-en-3196-2001

REPUBLIC OF KENYA
MINISTRY OF TRADE AND INDUSTRY
OFFICE OF THE SECRETARY
NAIROBI

.....T010
BUTICALJOSAR H00TUM 09 T25V009

1 Scope

This standard specifies the characteristics of self-locking hexagonal nuts in FE-PA92HT, silver plated, for aerospace applications.

Classification : 1 100 MPa ¹⁾ / 425 °C ²⁾

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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

ISO 7995 Aerospace - Nuts, hexagonal, self-locking, with MJ threads, coated or uncoated, classification 1 100 MPa / 235 °C, 1 100 MPa / 315 °C or 1 100 MPa / 425 °C - Dimensions

EN 2399 Heat resisting steel FE-PA92-HT - $R_m \geq 900$ MPa - Bars for forged bolts - $D \leq 25$ mm - Aerospace series ³⁾

EN 2424 Aerospace series - Marking of aerospace products ³⁾

EN 2786 Aerospace series - Electrolytic silver plating of fasteners ⁴⁾

EN 3152 Aerospace series - Propulsion standard parts - Nuts, self-locking, in heat resisting steel FE-PA92HT (A286) - Classification : 1 100 MPa / 425 °C - Technical specification ⁴⁾

EN 3638 Aerospace series - Heat resisting steel FE-PA92HT - Solution treated - Sheet and strip - $a \leq 3$ mm ⁵⁾

EN 3639 Aerospace series - Heat resisting alloy FE-PA2601 - Softened and cold worked - Wire for forged fasteners - $D \leq 15$ mm - $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ MPa}$ ⁴⁾

1) The strength class of the bolt concerned which can withstand the load at ambient temperature when tested at 100 % load without cracking or breaking of the nut.

2) Maximum test temperature of the parts

3) Published as AECMA Standard at the date of publication of this standard

4) Published as AECMA Prestandard at the date of publication of this standard

5) In preparation at the date of publication of this standard

3 Required characteristics

3.1 Configuration - Dimensions - Tolerances - Masses

See figure 1 and table 1. Dimensions and tolerances are in millimetres. They apply after silver plating.

3.2 Materials

EN 2399, EN 3638 or EN 3639

3.3 Surface treatment

EN 2786

Thickness :

- External surfaces : 5 μm to 15 μm ;
- Thread $\geq$ MJ6 : 5 μm min. on thread flanks ;
- Thread $\leq$ MJ5 : shall show complete coverage, without thickness requirement.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

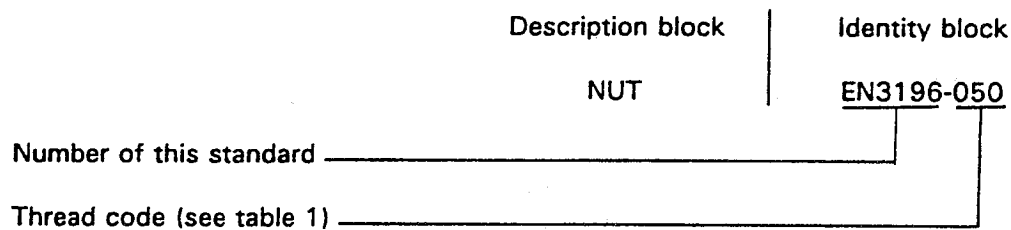
SIST EN 3196:2001

<https://standards.iteh.ai/catalog/standards/sist/9d1e8b22-6bfb-4634-b40f-41edf2c2287f/sist-en-3196-2001>

NOTE : The dimensions are in accordance with ISO 7995.

4 Designation

EXAMPLE :



NOTE : If necessary, the code I9005 shall be placed between the description block and the identity block.

5 Marking

EN 2424, style see table 2 and as indicated on figure 1.

Table 2

Thread code	Style
030 and 040	N
050 to 120	C

6 Technical specification

EN 3152