
Aerospace series - Shank nuts, self-locking, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature)/600°C

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Série aérospatiale - Ecrous a sertir, a freinage interne, en alliage résistant a chaud a base de nickel NI-P100HT (Inconel 718), argentés - Classification: 1 550 MPa (a température ambiante)/600°C

Ta slovenski standard je istoveten z: EN 4013:2003

ICS:

49.030.30 Matice Nuts

SIST EN 4013:2004 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4013

February 2003

ICS 49.030.30

English version

Aerospace series - Shank nuts, self-locking, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated -
Classification: 1 550 MPa (at ambient temperature)/600°C

This European Standard was approved by CEN on 19 August 2002.

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 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 Management Centre has the same status as the official versions.

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

[SIST EN 4013:2004](https://standards.iteh.ai/catalog/standards/sist/9c4b71d1-718b-456c-a3bc-1e3e96d915e8/sist-en-4013-2004)

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

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Foreword

This document EN 4013:2003 has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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 AECMA, 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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard : Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This standard specifies the characteristics of self-locking shank nuts in NI-P100HT, silver plated, for aerospace applications.

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Classification: 1 550 MPa ¹⁾/600 °C ²⁾ [1e3e96d915e8/sist-en-4013-2004](#)

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 (including amendments).

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

EN 2424, *Aerospace series – Marking of aerospace products*.

EN 2786, *Aerospace series - Electrolytic silver plating of fasteners* ³⁾.

EN 2952, *Aerospace series - Heat resisting nickel base alloy (NI-PH2601) - Solution treated and cold worked -Bar for hot upset forging for fasteners - $3 \leq D \leq 30$ mm* 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) In preparation at the date of publication of this standard

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

EN 4013:2003 (E)

EN 4047, *Aerospace series - Nuts, self-locking, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature) / 600 °C -Technical specification.*

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 Material

EN 2952.

3.3 Surface treatment

EN 2786.

Thickness:

- External surfaces: 5 µm to 15 µm;
- Thread ≥ MJ6: 5 µm min. shall be measured at the pitch diameter;
- Thread MJ5: shall show complete coverage, without thickness requirement.

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EN 4013:2003 (E)

Table 1

Code	Thread ^a Designation	C ± 0,1	E ± 0,25	H H14	J + 0,1 0	L + 0,2 0	P 0 - 0,1	S ± 0,1	T ± 0,25	Z max.	Mass kg/1000 parts ≈
050	MJ5x0,8-4H6H	7	13	7	5,2		6,5	9,5		8,5	2,78
060	MJ6x1-4H5H	8	14	8	6,2	1,8	7,5	10,5	2,4	9,5	3,45
070	MJ7x1-4H5H	9	16	9	7,2	2,8	8,5	11,5	3,4	10,5	4,28
080	MJ8x1-4H5H	10	17	10	8,2	3,2	9,5	12,5	3,9	11,5	5,56

^a In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

4 Designation

EXAMPLE:

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 Description block | Identity block
NUT | **EN 4013-050**

Number of this standard

SIST EN 4013:2004

Thread code (see Table 1)

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

5 Marking

EN 2424, style A, as indicated on Figure 1.

6 Technical specification

EN 4047.