ICS 49.030.30 SLOVENSKÁ TECHNICKÁ NORMA Február 2026

STN	**Letectvo a kozmonautika Samopoistné dvanásťhranné matice zo zliatiny niklu odolávajúcej vysokým teplotám NI-PH2601 (Inconel 718), s povlakom z MoS_2 Trieda: 1 550 MPa (pri teplote okolia)/425 °C**	**STN EN 4012 31 3362**

Aerospace series - Nut, bihexagonal, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS_2 coated - Classification: 1 550 MPa (at ambient temperature)/425 °C

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

Obsahuje: EN 4012:2025

Oznámením tejto normy sa ruší
STN EN 4012 (31 3362) z mája 2005

141691

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4012

October 2025

ICS 49.030.30 Supersedes EN 4012:2004

English Version

Aerospace series - Nut, bihexagonal, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS2 coated - Classification: 1 550 MPa (at ambient temperature)/425 °C

Série aérospatiale - Écrou bihexagonal, à freinage interne, en alliage résistant à chaud base nickel NI-PH2601 (Inconel 718), revêtu MoS2 - Classification : 1 550 MPa (à température ambiante)/425 °C

Luft- und Raumfahrt - Zwölfkantmutter, selbstsichernd, aus hochwarmfester Nickelbasislegierung NI-PH2601 (Inconel 718), MoS2-beschichtet - Klasse: 1 550 MPa (bei Umgebungstemperatur)/425 °C

This European Standard was approved by CEN on 25 August 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No. EN 4012:2025 E

EN 4012:2025 (E)

Contents

Page

European foreword

This document (EN 4012:2025) 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 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 April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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 4012:2004.

This document includes the following significant technical changes with respect to EN 4012:2004:

— Clause 3 “Terms and definitions” added;

— Clause 4 updated regarding surface treatment;

— Table 1 updated und extended;

— Clause 8 “Quality Management System” added.

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 European Standard: 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.

1 Scope

This document specifies the characteristics of self-locking bihexagonal nuts in NI-PH2601, MoS_2 coated, for aerospace applications.

Classification: 1 550 MPa[1]/425 °C[2].

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 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods*

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel or cobalt base alloys*

EN 2952, *Aerospace series — Heat resisting alloy NI-PH2601 — Solution treated and cold worked — Bar for forged fasteners — D ≤ 50 mm — 1 270 MPa ≤ R_m ≤ 1 550 MPa*

EN 4048, *Aerospace series — Nuts, self-locking, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS_2 coated — Classification: 1 550 MPa (at ambient temperature)/425 °C — Technical specification*

ISO 4095, *Aerospace — Bihexagonal drives — Wrenching configuration — Metric series*

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

[1] Corresponds to the minimum tensile stress which the nut is able to withstand at ambient temperature without breaking or cracking when tested with a bolt of a higher strength class.

[2] Maximum test temperature of the parts.