ICS 49.030.30 SLOVENSKÁ TECHNICKÁ NORMA Október 2024

| STN | **Letectvo a kozmonautika<br>Samopoistné nitovacie matice zo zliatiny niklu odolávajúcej vysokým teplotám NI-PH2601 (Inconel 718), postriebrené<br>Trieda: 1 550 MPa (pri teplote okolia)/600 °C** | **STN<br>EN 4013<br><br>31 3348** |
|---|---|---|

Aerospace series - Shank nut, self-locking, in heat resisting nickel base alloy NI PH2601 (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature)/600 °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. 09/24

Obsahuje: EN 4013:2024

Oznámením tejto normy sa ruší
STN EN 4013 (31 3348) z mája 2005

**139171**

# EUROPEAN STANDARD
# NORME EUROPÉENNE
# EUROPÄISCHE NORM

**EN 4013**

July 2024

ICS 49.030.30 Supersedes EN 4013:2004

English Version

# Aerospace series - Shank nut, self-locking, in heat resisting nickel base alloy NI PH2601 (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature)/600 °C

Série aérospatiale - Écrou à sertir, à freinage interne, en alliage résistant à chaud base nickel NI-PH2601 (Inconel 718), argenté - Classification : 1 550 MPa (à température ambiante)/600 °C

Luft- und Raumfahrt - Einnietmutter, selbstsichernd, aus hochwarmfester Nickelbasislegierung NI-PH2601 (Inconel 718), versilbert - Klasse: 1 550 MPa (bei Raumtemperatur) / 600 °C

This European Standard was approved by CEN on 19 May 2024.

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

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



Ref. No. EN 4013:2024 E

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# European foreword

This document (EN 4013:2024) 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 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of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.

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 will supersede EN 4013:2004.

This document includes the following significant technical changes with respect to EN 4013:2004:

— normative references updated;

— Clause 3 “Terms and definitions” added;

— Figure 1 amended.

**EN 4013:2024 (E)**

## 1 Scope

This document specifies the characteristics of self-locking, shank nuts, in NI-PH2601, silver plated, for aerospace applications.

Classification: 1 550 MPa[1]/600 °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 2786, *Aerospace series — Electrolytic silver plating of fasteners*

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 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*

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



[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.