# Aerospace series - Inserts, screw thread, helical coil, self-locking, in heat resisting nickel base alloy Ni-PH2801 (Inconel X750)

EESTI STANDARDIKESKUS
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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD



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|---|---|
| See Eesti standard EVS-EN 3542:2018 sisaldab Euroopa standardi EN 3542:2018 ingliskeelset teksti. | This Estonian standard EVS-EN 3542:2018 consists of the English text of the European standard EN 3542:2018. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.04.2018. | Date of Availability of the European standard is 18.04.2018. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 3542

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Supersedes EN 3542:1998

English Version

# Aerospace series - Inserts, screw thread, helical coil, self-locking, in heat resisting nickel base alloy NI-PH2801 (Inconel X750)

Série aérospatiale - Filets rapportés, à freinage interne, en alliage résistant à chaud à base de nickel NI-PH2801 (Inconel X750)

Luft- und Raumfahrt - Draht-Gewindeeinsätze, selbstsichernd, aus hochwarmfester Nickelbasislegierung NI-PH2801 (Inconel X750)

This European Standard was approved by CEN on 22 January 2018.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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## European foreword

This document (EN 3542:2018) 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 Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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 October 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

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 3542:1998.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

For design and assembly procedures see EN 3044 and EN 2945.

# 1 Scope

This document specifies the characteristics of inserts, self-locking, helical coil, tanged insertion drive, with MJ screw thread in NI-PH2801 material, for aerospace applications.

Maximum test temperature: 550 °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 2943, *Aerospace series — Inserts, screw thread, helical coil, self-locking — Technical specification*

EN 2945, *Aerospace series — Inserts, screw thread, helical coil, self-locking — Assembly procedure*

EN 3018, *Aerospace series — Heat resisting alloy NI-PH2801 (NiCr16Fe7Ti3Nb1Al1), with consumable electrode remelted — Cold drawn wire for the manufacture of thread inserts D ≤ 3 mm*[1]

EN 3044, *Aerospace series — Installation holes for inserts, screw thread, helical coil, selflocking — Design standard*

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

# 3 Required characteristics

## 3.1 Configuration — Dimensions — Tolerances — Masses

See Figure 1 and Table 1 and Table 2. Dimensions and tolerances are in millimetres.

## 3.2 Material

See EN 3018.

## 3.3 Material identification

Colour: yellow.

No chlorine-based constituents permitted in the colour identification product.



1 Published as ASD-STAN pre-standard at the date of publication of the present standard (www.asd-stan.org).