



# SLOVENSKI STANDARD

## SIST EN 2944:2018

01-julij-2018

Nadomešča:  
SIST EN 2944:2001

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**Aeronavtika - Vložki s spiralnim navojem, samozapiralni, iz korozijsko odpornega jekla FE-PA3004**

Aerospace series - Inserts, screw thread, helical coil, self-locking, in corrosion resisting steel FE-PA3004

Luft- und Raumfahrt - Draht-Gewindeeinsätze, selbstsichernd aus korrosionsbeständigem Stahl FE-PA3004

Série aérospatiale - Filets rapportés, à freinage interne, en acier résistant à la corrosion FE-PA3004

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**Ta slovenski standard je istoveten z: EN 2944:2018**

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**ICS:**

49.030.20 Sorniki, vijaki, stebelni vijaki Bolts, screws, studs

**SIST EN 2944:2018**

**en,fr,de**

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EUROPEAN STANDARD

EN 2944

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2018

ICS 49.030.30

Supersedes EN 2944:1998

English Version

## Aerospace series - Inserts, screw thread, helical coil, self-locking, in corrosion resisting steel FE-PA3004

Série aérospatiale - Filets rapportés, à freinage interne, en acier résistant à la corrosion FE-PA3004

Luft- und Raumfahrt - Draht-Gewindeeinsätze, selbstsichernd aus korrosionsbeständigem Stahl FE-PA3004

This European Standard was approved by CEN on 8 February 2018.

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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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

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## European foreword

This document (EN 2944:2018) 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 2944:1998.

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.

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EN 2944:2018 (E)

## Introduction

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

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## 1 Scope

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

Maximum test temperature: 350 °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 2947, *Aerospace series — Steel FE-PA3004 (X10CrNi18-09) — Air melted — Non heat treated — Cold drawn wire —  $a$  or  $D \leq 2,3$  mm*

EN 3044, *Aerospace series — Installation holes for inserts, screw thread, helical coil, self-locking — 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 millimeters.

### 3.2 Material

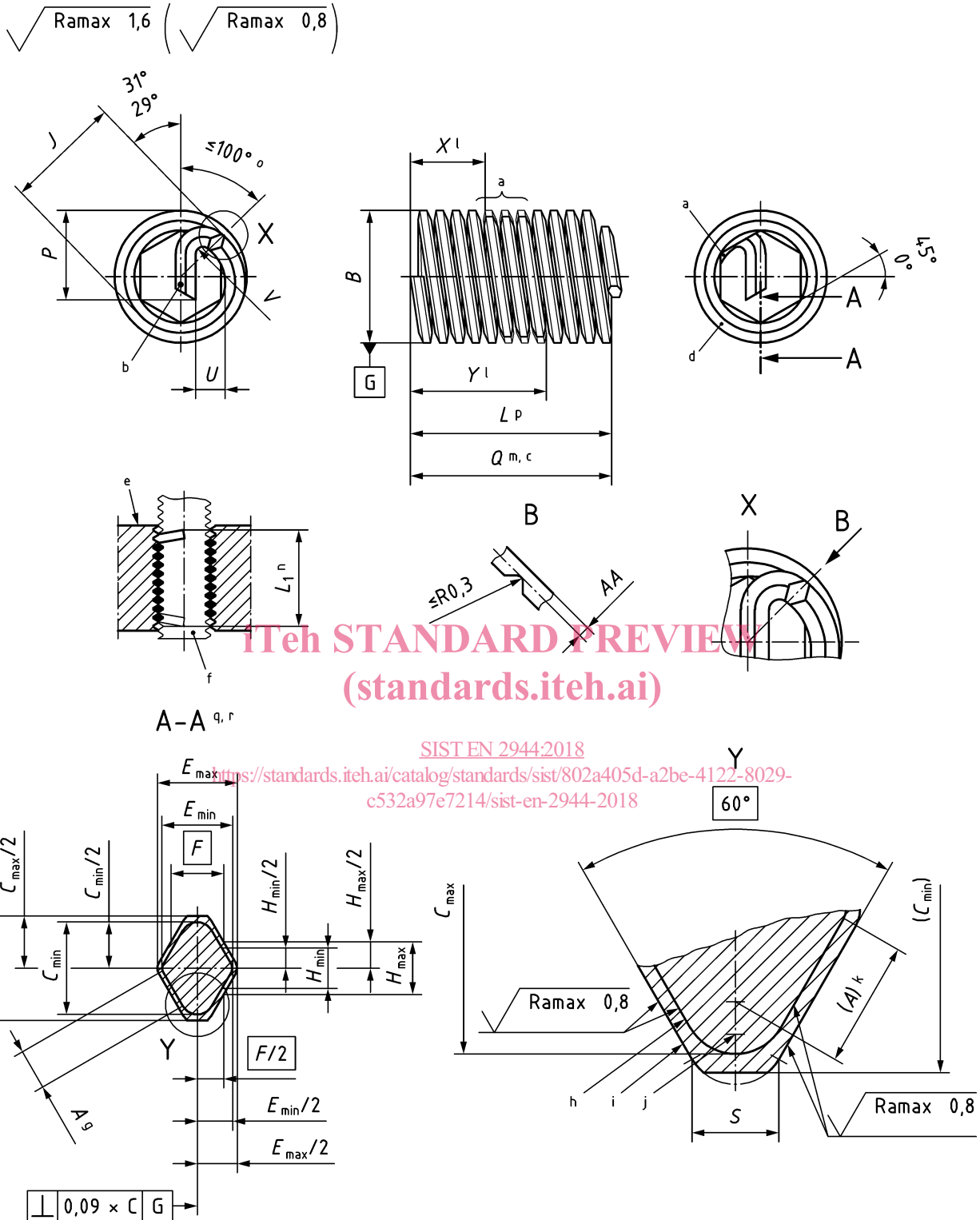
See EN 2947.

### 3.3 Material identification

Colour: blue.

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

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Key

- a form out-round in this area to achieve the self-locking requirements (tool marks permissible)
- b tang
- c number of coils
- d marking
- e lead-in face of installation hole
- f installation



- g see detail Y
- h min. profile
- i max. profile
- j  $R$ , min, tangential to flanks
- k straight portion of flank
- l locking feature shall be at least in the zone  $Y$  max. –  $X$  min. It shall take place on at least two coils separated by a plain coil, except in the case of inserts of diameters 4, 5 and 6 and a nominal length of  $1,25 D$  where the plain coil may be omitted.
- m the number of coils is counted from the notch.
- p length of fitted insert to notch.
- q dimensions after coiling, corresponding to an insert fitted in an installation hole to EN 3044.
- r section A-A is perpendicular to the helical axis.

**Figure 1 — Layout drawing, dimensions destined for design depts.**

Details of form not stated are left to the manufacturer's discretion.

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