



**NSAI**  
Standards

Irish Standard  
I.S. EN 3219:2020&LC:2020

Aerospace series - Heat resisting nickel base alloy (NI-P100HT) - Cold worked and softened - Bar and wire for continuous forging or extrusion for fasteners - 3 mm  $\leq D \leq 30$  mm

**I.S. EN 3219:2020&LC:2020**

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## National Foreword

I.S. EN 3219:2020&LC:2020 is the adopted Irish version of the European Document EN 3219:2020, Aerospace series - Heat resisting nickel base alloy (NI-P100HT) - Cold worked and softened - Bar and wire for continuous forging or extrusion for fasteners -  $3 \text{ mm} \leq D \leq 30 \text{ mm}$

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## Correction Notice

**Reference:** EN 3219:2020

**Title:** Aerospace series - Heat resisting nickel base alloy (NI-P100HT) - Cold worked and softened - Bar and wire for continuous forging or extrusion for fasteners -  $3 \text{ mm} \leq D \leq 30 \text{ mm}$

**Work Item:** 04001384

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**Please include the following minor editorial correction(s) in the document related to:**

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- ☐ PQ/UQ
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- ☐ UAP
- ☐ TC Approval
- ☐ 2<sup>nd</sup> TC Approval
- ☒ Publication
- ☐ Parallel Publication

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It has been brought to our attention that this document, issued on 2020-01-15, requires modification.

The title was missing an “**or**” to read:

“Aerospace series - Heat resisting nickel base alloy (NI-P100HT) - Cold worked and softened - Bar and wire for continuous forging **or** extrusion for fasteners -  $3 \text{ mm} \leq D \leq 30 \text{ mm}$ ”

We apologise for any inconvenience this may cause.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3219**

January 2020

ICS 49.025.99

English Version

**Aerospace series - Heat resisting nickel base alloy (NI-P100HT) - Cold worked and softened - Bar and wire for continuous forging or extrusion for fasteners -  $3\text{ mm} \leq D \leq 30\text{ mm}$**

Série aérospatiale - Alliage résistant à chaud base nickel (Ni-P100HT) - Écroui et adouci - Barre et fil pour le forgeage ou l'extrusion en continu pour fixations -  $3\text{ mm} \leq D \leq 30\text{ mm}$

Luft- und Raumfahrt - Hochwarmfeste Nickellegierung (Ni-P100HT) - Kaltverfestigt und abgeschreckt - Stangen und Drähte zum kontinuierlichen Verformen oder Strangpressen für Verbindungselemente -  $3\text{ mm} \leq D \leq 30\text{ mm}$

This European Standard was approved by CEN on 14 January 2019.

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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.

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

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## **European foreword**

This document (EN 3219:2020) 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 document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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.

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**EN 3219:2020 (E)**

## **Introduction**

This document is part of the series of EN metallic material standards for aerospace applications. The general organisation of this series is described in EN 4258.

This document has been prepared in accordance with EN 4500-003.

## 1 Scope

This document specifies the requirements relating to:

Heat resisting nickel base alloy (NI-P100HT)  
Cold worked and softened  
Bar and wire for continuous forging or extrusion for fasteners  
 $3\text{ mm} \leq D \leq 30\text{ mm}$

for aerospace applications.

## 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 2344, *Aerospace series — Round bars, machined in heat resisting alloys — Diameter  $10\text{ mm} \leq D \leq 180\text{ mm}$  — Dimensions*

EN 2369, *Aerospace series — Wires, heat resisting alloys — Diameter  $0,2\text{ mm} \leq D \leq 8\text{ mm}$  — Dimensions*

EN 2600, *Aerospace series — Designation of metallic semi-finished products — Rules*

EN 4700-002, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 002: Bar and section* <sup>1)</sup>

EN 4700-004, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 004: Wire*

EN 4800-002, *Aerospace series — Titanium and titanium alloys — Technical specification — Part 002: Bar and section*

EN 4800-004, *Aerospace series — Titanium and titanium alloys — Technical specification — Part 004: Wire*

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

## 4 Requirements

See Table 1.

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<sup>1)</sup> Published as ASD-STAN Standard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <http://www.asd-stan.org/>

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