



**NSAI**  
Standards

Irish Standard  
I.S. EN 2583:2019

Aerospace series - Bolts, MJ threads, in  
heat resisting nickel base alloy NI-PH2601  
(Inconel 718) - Classification: 1 275 MPa  
(at ambient temperature)/650°C -  
Technical specification

**I.S. EN 2583:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 2583:2019 is the adopted Irish version of the European Document EN 2583:2019, Aerospace series - Bolts, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718) - Classification: 1 275 MPa (at ambient temperature)/650°C - Technical specification

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**EUROPEAN STANDARD**

**EN 2583**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

May 2019

ICS 49.030.20

Supersedes EN 2583:1997

English Version

**Aerospace series - Bolts, MJ threads, in heat resisting  
nickel base alloy NI-PH2601 (Inconel 718) - Classification:  
1 275 MPa (at ambient temperature)/650°C - Technical  
specification**

Série aérospatiale - Vis à filetage MJ, en alliage résistant  
à chaud à base de nickel NI-PH2601 (Inconel 718) -  
Classification: 1 275 MPa (à température  
ambiante)/650°C - Spécification technique

Luft- und Raumfahrt - Schrauben, MJ-Gewinde, aus  
hochwarmfester Nickelbasislegierung NI-PH2601  
(Inconel 718) - Klasse: 1 275 MPa (bei  
Raumtemperatur)/650°C - Technische  
Lieferbedingungen

This European Standard was approved by CEN on 10 December 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.

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.



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COMITÉ EUROPÉEN DE NORMALISATION  
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## **European foreword**

This document (EN 2583:2019) 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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 2583:1997.

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, 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.

## EN 2583:2019 (E)

### 1 Scope

This standard specifies the characteristics, qualification and acceptance requirements for bolts with MJ threads in NI-PH2601.

Classification: 1 275 MPa<sup>1</sup>/650 °C<sup>2</sup>.

It is applicable whenever referenced.

### 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.

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 3452-1, *Non-destructive testing — Penetrant testing — Part 1: General principles*

ISO 3534:1977, *Statistics — Vocabulary and symbols*

ISO 4288, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture*

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

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 7961, *Aerospace — Bolts — Test methods*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ASTM E 112-13, *Standard Test Methods for Determining Average Grain Size*<sup>3</sup>

### 3 Definitions

For the purposes of this document, the following terms and definitions apply.

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

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1 Minimum tensile strength of the material at ambient temperature.

2 Maximum test temperature of the parts.

3 Published by: American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, USA.



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