

Irish Standard I.S. EN 3389:2009

Aerospace series - Fasteners, externally threaded, in heat resisting nickel base alloy NI-PH1302 (Waspaloy) - Classification: 1 210 MPa/730 °C - Manufacturing method optional - Technical specification

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English Version

Aerospace series - Fasteners, externally threaded, in heat resisting nickel base alloy NI-PH1302 (Waspaloy) - Classification: 1 210 MPa/730 °C - Manufacturing method optional - Technical specification

Série aérospatiale - Éléments de fixation, filetés, en alliage base nickel résistant à chaud NI-PH1302 (Waspaloy) -Classification: 1 210 MPa/730 °C - Mode de fabrication non imposé - Spécification technique Luft- und Raumfahrt - Verbindungselemente mit Außengewinde aus hochwarmfester Nickelbasislegierung NI-PH1302 (Waspaloy) - Klasse: 1 210 MPa/730 °C -Herstellverfahren nach Wahl - Technische Lieferbedingungen

This European Standard was approved by CEN on 5 October 2008.

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 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 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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EN 3389:2009 (E)

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Foreword

This document (EN 3389:2009) 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 August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

EN 3389:2009 (E)

1 Scope

This standard specifies the technical and quality assurance requirements for externally threaded fasteners in material NI-PH1302 (Waspaloy) of tensile strength class 1 210 MPa at room temperature, maximum test temperature of material 730 °C.

The externally threaded fasteners specified herein may be manufactured by machining from bar or by forging at the manufacturers option, if forged there is no requirement for control of grainflow.

Primarily for Aerospace applications, it is applicable to such externally threaded fasteners when referenced on the product standard or drawing.

2 Normative references

The following referenced documents are indispensable for the application 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 2959, Aerospace series — Heat resisting alloy NI-PH1302 (NiCr20Co13Mo4Ti3Al) — Solution treated and cold worked — Bar for forged fasteners — 3 mm \leq D \leq 30 mm 1

EN 2960, Aerospace series — Heat resisting alloy NI-P101HT — Cold worked and solution treated — Bar for machining for fasteners $3 \le D \le 50$ mm ¹

EN 3220, Aerospace series — Heat resisting nickel base alloy (Ni-P101HT) — Cold worked and softened — Bar and wire for continuous forging or extrusion for fasteners — $3 \le D \le 30$ mm ¹

EN 9100, Aerospace series — Quality management systems — Requirements (based on ISO 9001:2000) and Quality systems — Model for quality assurance in design, development, production, installation and servicing (based on ISO 9001:1994

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 inspection — Part 1: General principles

ISO 3453, Non destructive testing — Liquid penetrant inspection — Means of verification

ISO 3534, Statistics — Vocabulary and symbols

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

ISO 6508-1, Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)

ISO 7961, Aerospace — Bolts — Test methods

ISO 9000, Quality management systems — Fundamentals and vocabulary

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