

**Aerospace series - Nuts, self-locking, in heat
resisting nickel base alloy NI-P101HT
(Waspaloy) - Classification: 1210 MPa/730 °C -
Technical specification**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 3005:2003 sisaldab Euroopa standardi EN 3005:2003 ingliskeelset teksti.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 18.02.2003 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English version

Aerospace series - Nuts, self-locking, in heat resisting nickel
base alloy NI-P101HT (Waspaloy) - Classification: 1210
MPa/730°C - Technical specification

This European Standard was approved by CEN on 24 June 2002.

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 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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 3005:2003) has been prepared by the European Association of Aerospace Manufacturers – Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by July 2003, and conflicting national standards shall be withdrawn at the latest by July 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope and field of application

This standard specifies the technical; qualification and quality assurance requirements for self locking nuts in material NI-P101-HT(Waspaloy) of tensile strength class 1210 MPa. at room temperature, maximum test temperature of material 730 °C.

Primarily for Aerospace applications it is applicable to such self locking nuts when referenced on the product standard or drawing.

2 References

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	Non destructive testing – Penetrant inspection – General principles
ISO 3453	Non destructive testing – Liquid penetrant inspection – Means of verification
ISO 3534	Statistics – Vocabulary and symbols
ISO 8642	Aerospace – Self-locking nuts with maximum operating temperature greater than 425 °C – Test methods
ISO 9002	Quality systems – Model for quality assurance in production, installation and servicing
EN 2002-8	Aerospace series – Metallic materials – Test methods – Part 8: Micrographic determination of grain size ¹⁾
EN 2959	Aerospace series – Heat resisting alloy Ni-PH1302 (NiCr20Co13Mo4Ti3Al) – Solution treated and cold worked – Bar for forged fasteners – $3 \text{ mm} \leq D \leq 30 \text{ mm}$ ¹⁾
EN 2960	Aerospace series – Heat resisting nickel base alloy (Ni-P101HT) – Cold worked and solution treated – Bar for machining for fasteners – $3 \text{ mm} \leq D \leq 50 \text{ mm}$ ¹⁾
EN 3039	Aerospace series – Propulsion standard parts – Quality assurance ²⁾
EN 3041	Aerospace series – Method change approval for qualified parts – Technical specification ²⁾
EN 3042	Aerospace series – Quality assurance – EN aerospace products – Qualification procedure.
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 – $3 \text{ mm} \leq D \leq 30 \text{ mm}$ ¹⁾
TR 3040-1	Aerospace series – Quality assurance – EN aerospace products – List of approved manufacturers ³⁾

1) Published as AECMA Prestandard at the date of publication of this standard

2) In preparation at the date of publication of this standard

3) Published as AECMA Technical Report at the date of publication of this standard