SLOVENSKI STANDARD

SIST EN 3240:2008

01-marec-2008

Aeronavtika - Matice, samozapiralne, vijaļne, iz toplotnoodpornega jekla FE-PA2601 (A286), brez prevleke - Klasifikacija: 1 100 MPa (pri temperaturi okolice) / 425 ÁC

Aerospace series - Nuts, self-locking, clip, in heat resisting steel FE-PA2601 (A286), uncoated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Luft- und Raumfahrt - Klemmuttern, selbstsichernd, aus hochwarmfestem Stahl FE-PA2601 (A286), blank - Klasse: 1 100 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Écrous à pincer, à freinage interne, en acier résistant à chaud FE-PA2601 (A286), non revêtus - Classification : 1 100 MPa (à température ambiante) / 425 °C

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EUROPEAN STANDARD

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English Version

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Foreword

This document (EN 3240:2007) 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of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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.

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1 Scope

This standard specifies the characteristics of self-locking clip nuts in FE-PA2601 (A286) for aerospace applications.

Classification: 1 100 MPa [1] / 425 °C [2]

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.

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements.*

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

EN 2424, *Aerospace series — Marking of aerospace products.*

EN 3152, *Aerospace series — Nuts, self-locking, MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated or uncoated — Classification: 1 100 MPa (at ambient temperature) / 425 °C — Technical specification.*

EN 3638, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Consumable electrode remelted — Solution and precipitation treated — Sheet, strip and plate — 0,5 mm ≤ a ≤ 10 mm.*

EN 3639, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Wire for forged fasteners — D ≤ 15 mm — 900 MPa ≤ R_m ≤ 1 100 MPa.* [3]

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts.*

3 Required characteristics

3.1 Configuration - Dimensions - Tolerances - Masses

The configuration of the clip nut in this standard is given as an example only. Forms not stated are at the manufacturer's option. Only the maximum overall dimensions given in the Table 1 and the interchangeability requirements are imposed. The minimum dimensions are limited by the requirements of the technical specification.

Dimensions and tolerances are in millimetres. See Figure 1.

3.2 Material

Nut element: EN 3638 or EN 3639

Clip: EN 3638

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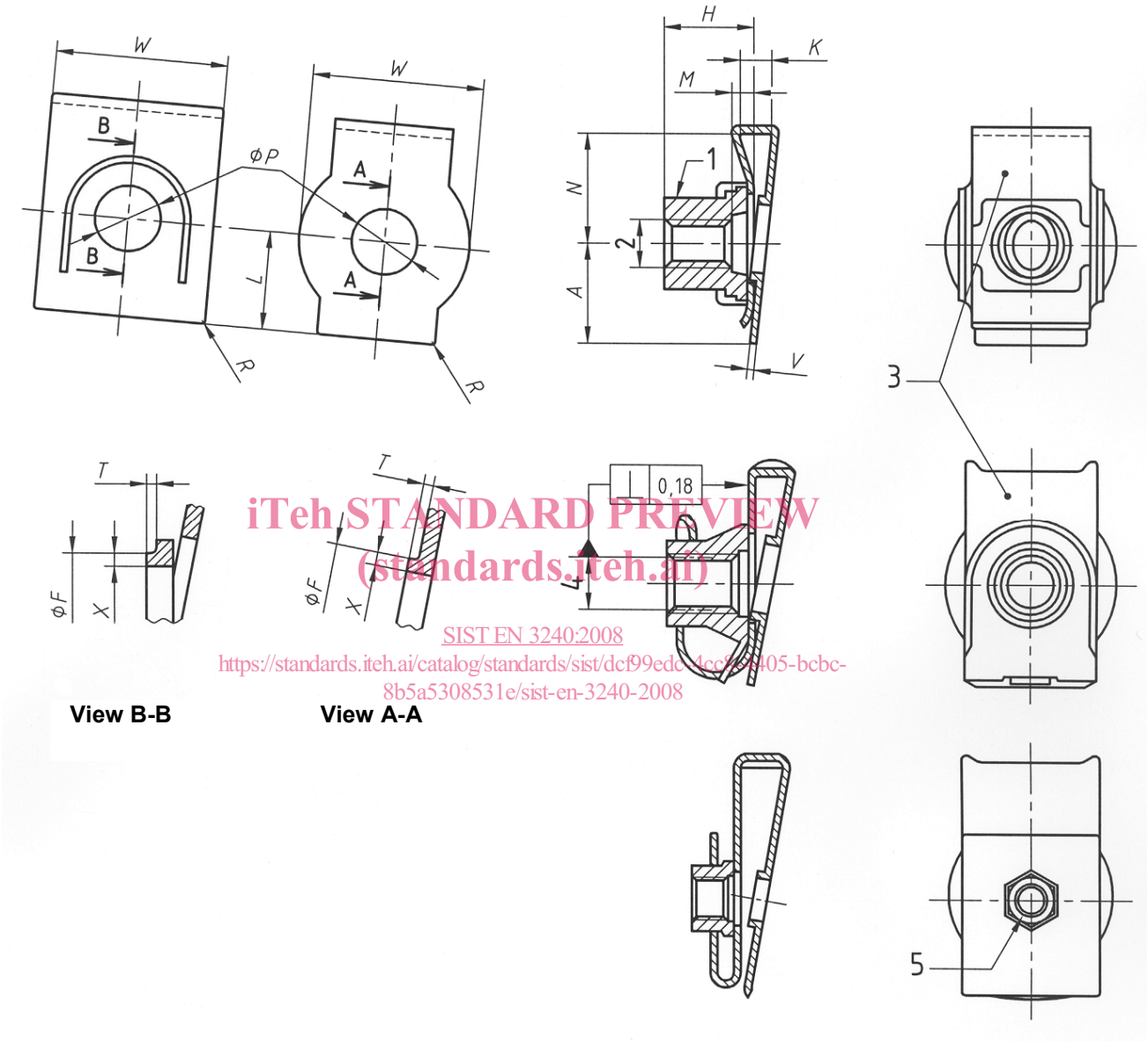
1) The strength class of the bolt concerned which can withstand the load at ambient temperature when tested at 100 % load without cracking or breaking the nut.

2) Maximum test temperature of the part.

3) Published as ASD Prestandard at the date of publication of this standard.

6,3 Thread surfaces will be as achieved by normal method of manufacture

Remove sharp edges 0,1 to 0,4



View B-B **View A-A**

Additional permissible shape

Key

1 Deformation in this area to achieve self-locking requirement - Tooling marks acceptable
2 Thread ∅
3 Identity markings
4 Pitch ∅
5 Nut

All forms are acceptable within limit dimensions.

Figure 1

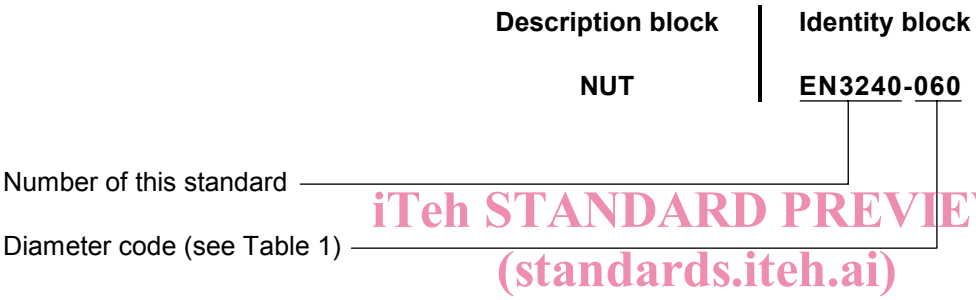
Table 1 — Dimensions and masses

Thread		*A*	*F*	*H*	*K*	*L*	*M*	*N*	*P*	*R*	*T*	*V*	*W*	*X*	**Mass**	Panel thickness range
Diameter code	Designation [a]	± 0,5	max.	max.	± 0,5	± 0,5	min.	± 0,5	± 0,15	± 0,5	± 0,5	± 0,05	max.	min.	kg/1 000	
040	MJ4x0,7-4H6H	5,5	6,45	5,8	2,7	7	1,6	10	5,2	0,75	0,75	0,5	13	0,25	2,5	0,9-2
050	MJ5x0.8-4H6H			6,9											2,6	
060	MJ6x1-4H5H	8,5	8,05	8,8		10	2,3		6,6			0,63	18,5	0,3	4,3	

[a] Threads to ISO 5855-1 and ISO 5855-2.

4 Designation

EXAMPLE



NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

5 Marking

EN 2424, style F, at the location shown in the Figure 1.

6 Technical specification and product qualification

The clip nuts shall be qualified in accordance with EN 9133, conforming to the requirements of EN 3152.