
Aeronavtika - Zakovne matice, samovarovalne, premične, dvostranske, skrajšana serija, z izvrtino za valjaste vijake, iz jekla, prevlečene s kadmijem, namazane z MoS2 - Klasifikacija: 1 110 MPa (pri temperaturi okolice)/235 °C

Aerospace series - Nuts, anchor, self-locking, floating, two lug, reduced series, with counterbore, in steel, cadmium plated, MoS2 lubricated - Classification: 1 110 MPa (at ambient temperature)/235 °C

Luft- und Raumfahrt - Anniutmuttern, selbstsichernd, beweglich, beiderseitiger Flansch, mit zylindrischer Aussenkung, aus Stahl, verkadmet, MoS2-geschmiert - Klasse: 1 100 MPa (bei Raumtemperatur)/235 °C

Série aérospatiale - Écrous à river, à freinage interne, flottants, double patte, série réduite, avec chambrage, en acier, cadmiés, lubrifiés au MoS2 - Classification : 1 100 MPa (à température ambiante)/235 °C

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49.030.30 Matice Nuts

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EUROPEAN STANDARD

EN 4269

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2023

ICS 49.030.30

English Version

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This European Standard was approved by CEN on 17 April 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Required characteristics	5
4.1	Configuration — Dimensions — Masses	5
4.2	Tolerances of form and position	5
4.3	Materials	5
4.4	Surface treatments	5
5	Designation	8
6	Marking	8
7	Technical specification	8
Bibliography		9

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European foreword

This document (EN 4269:2023) 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 document has received the approval of the National Associations and the Official Services of the member countries of ASD STAN, 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of an identical text or by endorsement, at the latest by January 2024, and conflicting national standards shall be withdrawn at the latest by January 2024.

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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Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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EN 4269:2023 (E)**1 Scope**

This document specifies the characteristics of self-locking, floating, two lug anchor nuts, reduced series, with counterbore, in steel, cadmium plated, MoS₂ lubricated.

Classification: 1 100 MPa¹/235 °C².

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 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength $\leq 1\,450$ MPa, copper, copper alloys and nickel alloys*

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

EN 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods*

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

ISO 5858, *Aerospace — Nuts, self-locking, with maximum operating temperature less than or equal to 425 degrees C — Procurement specification*

ISO 7323, *Rubber, raw and unvulcanized compounded — Determination of plasticity number and recovery number — Parallel-plate method*

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position*

TR 3791, *Materials for metal self-locking nuts, threaded inserts and screw thread inserts of temperature classes ≤ 425 °C³*

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 <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

¹ Corresponds to the minimum tensile stress which the nut is able to withstand at ambient temperature without breaking or cracking when tested with a bolt of a higher strength class.

² Maximum temperature that the nut is able to withstand, without permanent alteration to its original characteristics, after ambient temperature has been restored. The maximum temperature is conditioned by the surface treatment.

³ Published as ASD-STAN Technical Report at the date of publication of this standard.

4 Required characteristics

4.1 Configuration — Dimensions — Masses

See Figure 1 and Table 1.

Dimensions and tolerances are: in conformity with ISO 7323, expressed in millimetres and apply after cadmium plating but before MoS₂ lubrication.

Details of form not stated are at the manufacturer's option.

The cap shall remain joined (type of attachment at the user's discretion) to the nut at the maximum operating temperature. See test conditions in ISO 5858.

4.2 Tolerances of form and position

ISO 8788.

4.3 Materials

TR 3791.

4.4 Surface treatments

EN 2133, 5 µm min. on threads and all surfaces which can be contacted by a 20 mm diameter ball. On all other surfaces, a continuous deposit shall be present.

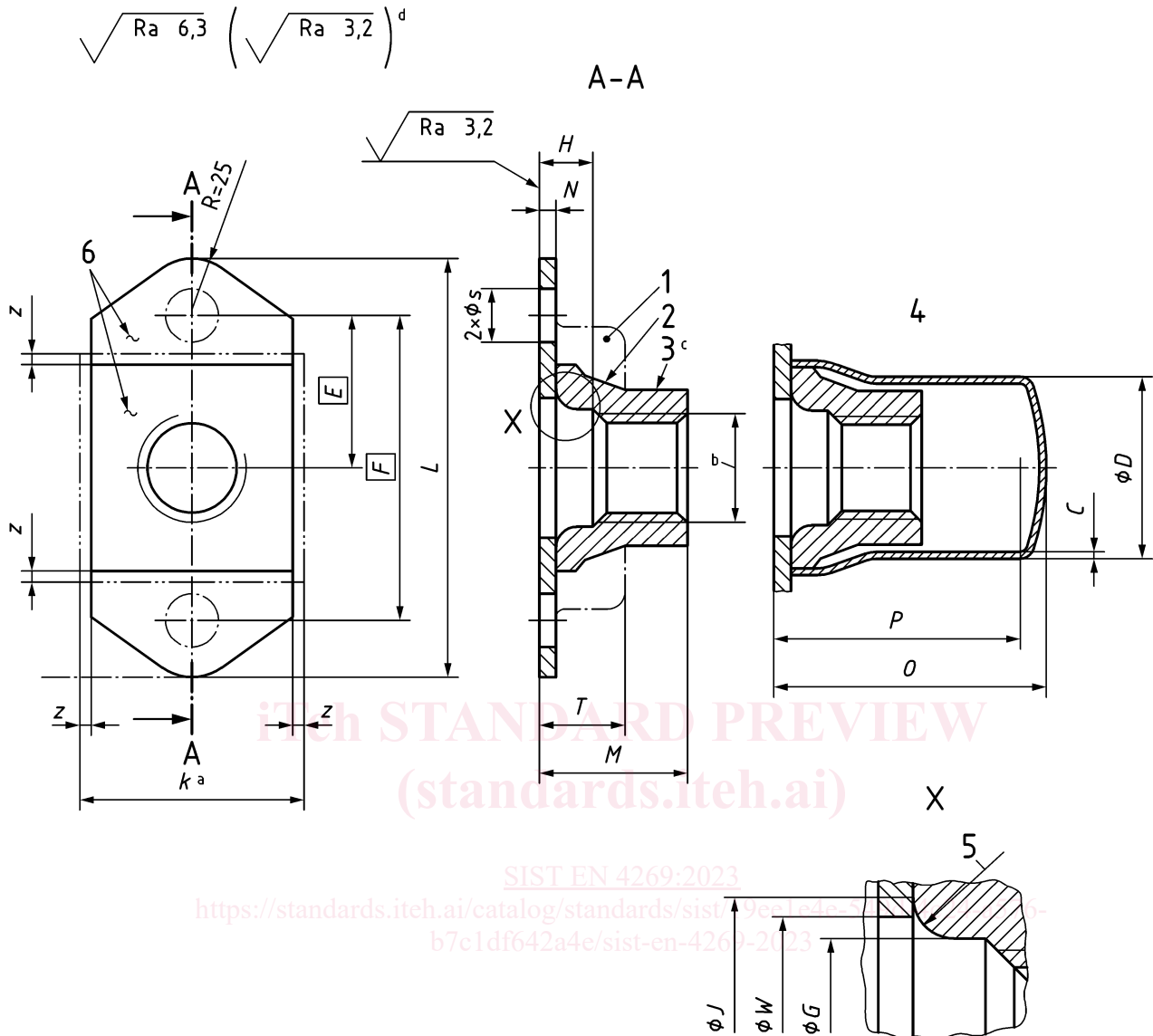
EN 2491, thickness not specified.

Remove sharp edges 0,1 to 0,4.

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EN 4269:2023 (E)

**Key**

- 1 Cage
 - 2 Threaded element
 - 3 Form out-of-round in this area to achieve the self-locking torque requirement
 - 4 Configuration with cap
 - 5 Radius or chamfer
 - 6 Marking
- a Float inclusive
 b Thread
 c Tooling marks are permitted in this area.
 d These values in micrometres apply before surface treatment. They do not apply to threads, punched holes or sheared edges, the surface texture of which will be as achieved by usual manufacturing methods.

Figure 1

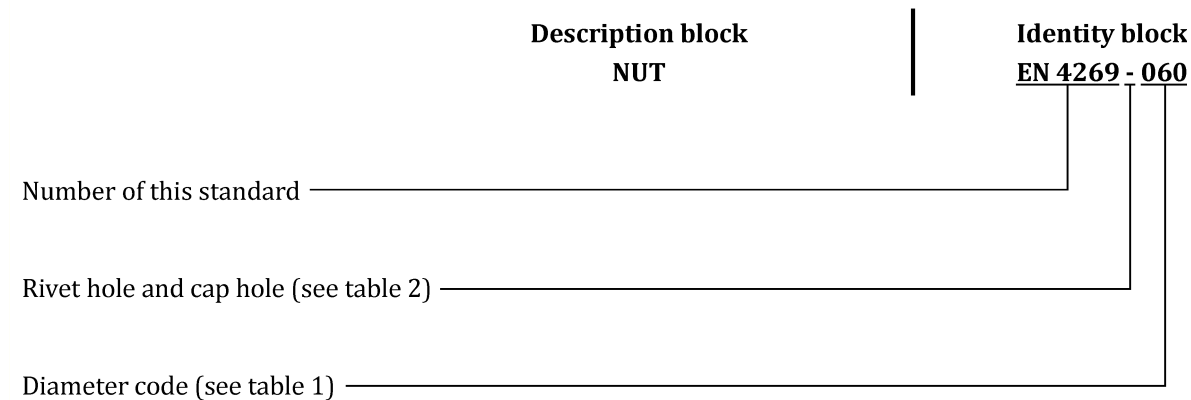
Table 1

Diameter code	Thread ^a	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>J</i> ^b	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i> ^c	<i>P</i> ^d	<i>Q</i>	<i>S</i>	<i>T</i>	<i>W</i>	Radial float <i>Z</i>	Mass ^{d e}
		max.	max.		min.	min.	max.	max.	max.	max.	max.	max.	≈	max.	max.	+0,2 0	max.	min.	min.
040	MJ4×0,7-4H6H	0,4	6,6	6	12	4,4	2,2	6,2	11	17,2	5,8	0,8	11	13	2,5	4,5	5,4	0,5	1,76
050	MJ5×0,8-4H6H		7,9	7	14	5,5	2,4	7,3	12	19,2	6,9		11,4	13,4			6,5		1,90
060	MJ6×1-4H5H		9,2	8	16	6,5	2,7	8,7	13,5	21,2	8,1		12,7	14,7		4,6	7,5		2,80
<p>^a In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.</p> <p>^b Measured at sharp corners (chamfered) or point of tangency (radiused).</p> <p>^c Measured at the rivet hole location.</p> <p>^d Maximum protrusion of the bolt.</p> <p>^e Approximate values (kg/1 000 pieces), given for information purposes only.</p>																			

EN 4269:2023 (E)

5 Designation

EXAMPLE



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

Table 2 — Rivet hole and cap hole

Option	Code
Plain rivet holes	- (hyphen)
Plain rivet holes + cap	B

6 Marking

EN 2424, style N. See Figure 1.

7 Technical specification

ISO 5858, except for:

- approval of manufacturers: The manufacturer's operations shall be an approved production organisation for aerospace products and shall demonstrate that it has implemented and is able to maintain a quality management system (e.g. according to EN 9100 or an equivalent aerospace accepted and established quality management system);
- qualification of products: The qualification procedure for aerospace standard products (e.g. according to EN 9133 or an equivalent aerospace accepted and established qualification procedure) shall be used and documented according to the specified tests if not otherwise agreed between customer and supplier.