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**Aeronavtika - Matice, šestrobe, samozapiralne, z izravnavo nagiba, iz toplotnoodpornega jekla, mazane z MoS2 - Klasifikacija: 900 MPa (pri temperaturi okolice)/315 °C**

Aerospace series - Nuts, hexagonal, self-locking, ball seat, in heat resisting steel, MoS2 lubricated - Classification: 900 MPa (at ambient temperature)/315 °C

Luft- und Raumfahrt - Sechskantmuttern, selbstsichernd, für Neigungsausgleich, aus hochwarmfestem Stahl, MoS2-geschmiert - Klasse: 900 MPa (bei Raumtemperatur)/315 °C

Série aérospatiale - Écrous hexagonaux, à freinage interne, orientables, en acier résistant à chaud, lubrifiés MoS2 - Classification: 900 MPa (à température ambiante)/315 °C

**Ta slovenski standard je istoveten z: EN 3763:2010**

**ICS:**

49.030.30      Matice      Nuts

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3763**

January 2010

ICS 49.030.30

English Version

**Aerospace series - Nuts, hexagonal, self-locking, ball seat, in  
heat resisting steel, MoS<sub>2</sub> lubricated - Classification: 900 MPa  
(at ambient temperature) / 315 °C**

Série aérospatiale - Écrous hexagonaux, à freinage interne,  
orientables, en acier résistant à chaud, lubrifiés MoS<sub>2</sub> -  
Classification: 900 MPa (à température ambiante) / 315 °C

Luft- und Raumfahrt - Sechskantmuttern, selbstsichernd,  
für Neigungsausgleich, aus hochwarmfestem Stahl, MoS<sub>2</sub>-  
geschmiert - Klasse: 900 MPa (bei Raumtemperatur) / 315  
°C

This European Standard was approved by CEN on 4 December 2009.

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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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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 United Kingdom.



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## Foreword

This document (EN 3763:2010) 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 July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

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, Croatia, 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.

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## EN 3763:2010 (E)

## 1 Scope

This standard specifies the characteristics of self-locking hexagonal nuts with ball seat in heat resisting steel, MoS<sub>2</sub> lubricated.

Classification: 900 MPa<sup>1)</sup> / 315 °C<sup>2)</sup>.

They are intended to be used with washers to EN 3764 or suitable parts, see Annex A.

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

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

EN 3764, *Aerospace series — Washers, concave, in heat resisting steel, passivated<sup>3)</sup>*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

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

TR 3791, *Aerospace series — Materials for self-locking nuts, threaded inserts and screw thread inserts of temperature classes ≤ 425 °C<sup>4)</sup>*

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 °C — Procurement specification*

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

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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 Prestandard at the date of publication of this standard.

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

### 3 Required characteristics

#### 3.1 Configuration — Dimensions — Masses

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres and apply before MoS<sub>2</sub> lubrication.

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

#### 3.2 Tolerances of form and position

ISO 8788.

#### 3.3 Materials

TR 3791.

#### 3.4 Surface treatment

EN 2491, thickness not specified.

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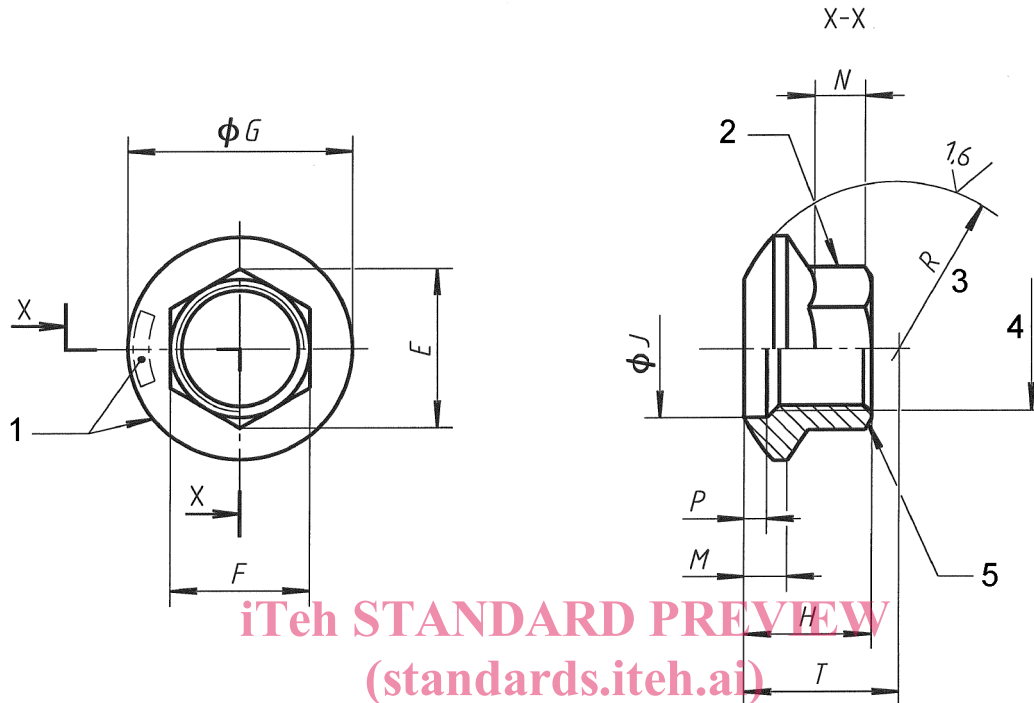
## EN 3763:2010 (E)

6,3

1,6

These values in micrometres apply before surface treatment. They do not apply to threads the surface texture of which will be as achieved by usual manufacturing methods.

Remove sharp edges 0,1 to 0,4.



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## Key

- 1 Marking (optional location, at the manufacturer's discretion)
- 2 Form out-of-round in this area to achieve the self-locking torque requirement. Tooling marks are permitted in this area.
- 3 Spherical
- 4 Thread
- 5 Chamfer, radius or broken edge

Figure 1

Table 1

Diameter code	Thread <sup>a</sup>	$E^b$		$F^b$		$G$	$H$	$J$	$M$	$N$	$P$	$R$	$T$	Mass <sup>c</sup>
		min.				$\pm 0,2$	max.	min.	min.	min.	min.	0 -0,5		
050	MJ5×0,8-4H6H	6,5	6	h12	10,3	7,05	5,5	1,7	2	2,05	8	7,5	1,7	
060	MJ6×1-4H5H	7,6	7		13	8,1	6,5	2,5	2,3	2,7	9	8,4	2,5	
080	MJ8×1-4H5H	10,9	10		17	9,7	8,5	3	3,2	2,5	12,5	11,75	6,5	
100	MJ10×1,25-4H5H	13,2	12	h13	21	11,95	10,5	4	3,3	2,95	16	15,1	11,3	
120	MJ12×1,25-4H5H	15,5	14		24	13,46	12,5	4,5	4,5	2,65	18	16,9	17,4	

<sup>a</sup> In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

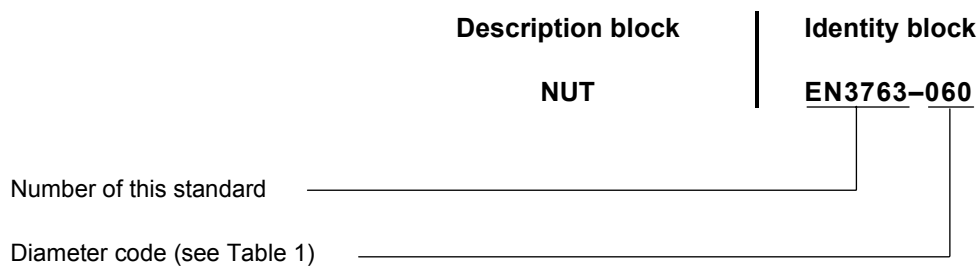
<sup>b</sup> These dimensions apply before forming out-of-round, but finished nuts shall fit a standard socket wrench.

<sup>c</sup> Approximate values (kg/1 000 pieces), given for information purposes only.



## 4 Designation

EXAMPLE



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

## 5 Marking

EN 2424, style N plus diameter code. See Figure 1.

## 6 Technical specification

ISO 5858, except for:

- Approval of manufacturers: see EN 9100;
- Qualification of products, nut and washer (EN 3764): see EN 9133.

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