Draft for Public Comment

Form 36

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Responsible committee: ACE/12 Aerospace fasteners and fastening systems

Interested committees:

Title: Draft BS ISO 9139 Aerospace — Nuts, plain or slotted (castellated) — Procurement specification.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 9139

Aerospace — Nuts, plain or slotted (castellated) — Procurement specification

Aéronautique et espace — Écrous ordinaires ou à créneaux — Spécification d'approvisionnement

ICS: 49.030.30

ISO/TC **20**/SC **4**

Secretariat: **DIN**

Voting begins on:
2025-04-21

Voting terminates on:
2025-07-14

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

This second edition cancels and replaces the first edition (ISO 9139:1998), which has been technically revised.

The main changes are as follows:

New sampling for visual inspections and dimensional characteristics introduced, replacing the AQL sampling:

— IRR definition added in clause 3

— AQL definition removed in clause 3

— AS/EN 9138 paragraph added to clause 4.3

— Structure of table 1 changed

— Acceptance sample sizes for visual inspections and dimensional characteristics changed in table 1 Table 6 modified, previous tables 7 removed and replaced by new tables 7 to 9

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Aerospace — Nuts, plain or slotted (castellated) — Procurement specification

1 Scope

This International Standard specifies the required characteristics for metric plain or slotted (castellated) nuts, with MJ threads according to ISO 5855-2, for use in aerospace construction.

It is applicable to nuts as defined above, provided that reference is made to this International Standard in the relevant definition document.

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.

ANSI/ASME B 46.1, *Surface Texture (Surface Roughness, Waviness And Lay)*

AS/EN 9138, *Aerospace Series - Quality Management Systems Statistical Product Acceptance Requirements*

ISO 1463, *Metallic and oxide coatings — Measurement of coating thickness — Microscopical method*

ISO 3452, *Non-destructive testing — Penetrant inspection (Parts 1 to 6)*

ISO 3887, *Steels — Determination of the depth of decarburization*

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

ISO 7870, *Control charts (Parts 1 to 9)*

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

ISO 9140, *Aerospace — Nuts, plain or slotted (castellated) — Test methods*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology 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/

3.1
definition document
document specifying all the requirements for nuts, i.e.:

— metallurgical;

— geometrical and dimensional;

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