

INTERNATIONAL STANDARD

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

*Aéronautique et espace — Écrous ordinaires ou à créneaux — Méthodes
de contrôle et d'essai*



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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9140 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

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

1 Scope

This International Standard specifies test methods for metric plain or slotted (castellated) nuts, with MJ threads in accordance with ISO 5855-2, for use in aerospace construction. It describes the test device and the method for each test.

It is applicable to nuts as defined above, provided that the relevant documents (product standard, definition document, procurement specification, etc.) refer to this International Standard.

This International Standard is to be used in conjunction with ISO 9139 or any other similar document.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 691:1997, *Assembly tools for screws and nuts — Wrench and socket openings — Tolerances for general use.*

ISO 1024:1989, *Metallic materials — Hardness test — Rockwell superficial test (scales 15N, 30N, 45N, 15T, 30T and 45T).*

ISO 5855-2:1988, *Aerospace — MJ threads — Limit dimensions for bolts and nuts.*

ISO 6507-1:1997, *Metallic materials — Vickers test hardness — Part 1: Test method.*

ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K).*

ISO 9139:1998, *Aerospace — Nuts, plain or slotted (castellated) — Procurement specification.*