BS EN ISO 7042:2012



BSI Standards Publication

Prevailing torque type all-metal hexagon high nuts — Property classes 5, 8, 10 and 12

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National foreword

This British Standard is the UK implementation of EN ISO 7042:2012. It supersedes BS EN ISO 7042:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FME/9, Fasteners.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Prevailing torque type all-metal hexagon high nuts - Property classes 5, 8, 10 and 12 (ISO 7042:2012)

Écrous hexagonaux hauts autofreinés tout métal - Classes de qualité 5, 8, 10 et 12 (ISO 7042:2012)

Sechskantmuttern mit Klemmteil (Ganzmetallmuttern), Typ 2 - Festigkeitsklassen 5, 8, 10 und 12 (ISO 7042:2012)

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

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Foreword

This document (EN ISO 7042:2012) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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.

This document supersedes EN ISO 7042:1997.

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Endorsement notice

The text of ISO 7042:2012 has been approved by CEN as a EN ISO 7042:2012 without any modification.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 7042 was prepared by Technical Committee ISO/TC 2, Fasteners, Subcommittee SC 12, Fasteners with metric internal thread.

This third edition cancels and replaces the second edition (ISO 7042:1997), of which it constitutes a minor revision.

Prevailing torque type all-metal hexagon high nuts — Property classes 5, 8, 10 and 12

1 Scope

This International Standard specifies the characteristics of prevailing torque type all-metal hexagon high nuts, with threads from M5 up to and including M36, in product grade A for threads up to and including M16 and product grade B for threads above M16, and with property classes 5, 8, 10 and 12.

NOTE 1 The dimensions of the nuts with the exception of the dimensions $m_{\rm W}$ and $h_{\rm max}$ correspond to those given in ISO 4033.

NOTE 2 Nuts of property class 9 are dealt with in ISO 7720.

If other specifications are required, they can be selected from existing International Standards, for example ISO 261, ISO 724, ISO 898-2, ISO 965-2, ISO 2320 and ISO 4759-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to its application. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions

ISO 261, ISO general purpose metric screw threads — General plan

ISO 724, ISO general-purpose metric screw threads — Basic dimensions

ISO 898-2, Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread

ISO 965-2, ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality

ISO 2320, Prevailing torque type steel nuts — Mechanical and performance properties

ISO 3269, Fasteners — Acceptance inspection

ISO 4042, Fasteners — Electroplated coatings

ISO 4759-1, Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C

ISO 6157-2, Fasteners — Surface discontinuities — Part 2: Nuts

ISO 8992, Fasteners — General requirements for bolts, screws, studs and nuts

ISO 10683, Fasteners — Non-electrolytically applied zinc flake coatings

ISO 10684, Fasteners — Hot dip galvanized coatings