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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 document 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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This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 12, *Fasteners with metric internal thread*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC-185, *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 7042:2012) which has been technically revised.

The main changes are as follows:

- the design principles of these nuts have been clarified in Scope (see Note);
- style, relevant property classes and related quenching and tempering conditions for steel nuts have been specified in [Clause 5](#) in accordance with ISO 898-2 (see [Table 3](#));
- stainless steel nuts have been added in accordance with ISO 3506-2;
- M7, M18, M22, M27, M33 and M39 have been added;
- $d_{a,max}$ has been specified with two decimal places;
- $d_{w,min}$ for M5 has been changed from $s_{min} - IT16$ to $s_{min} - IT15$ in order to have a larger bearing surface area and thus less contact pressure;
- h_{max} for M12 has been corrected to 12,30 mm (13,30 mm in the third edition came from a typing error); h_{max} for M24 has been increased to 24,00 mm in order to have $h_{max} \geq D$ for the whole diameter range;

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— specifications for marking and labelling have been added as Clause 6.

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