
International Standard



8992

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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

Éléments de fixation — Prescriptions générales relatives aux boulons, vis, goujons et écrous

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Descriptors : fasteners, bolts, screws, studs, nuts (fasteners), specifications.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8992 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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

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1 Scope and field of application

This International Standard specifies the general requirements for standardized bolts, screws, studs and nuts; it complements the International Standards on dimensional and tolerance requirements, and the International Standards on mechanical and functional requirements.

It is recommended that this International Standard be used also for non-standardized bolts, screws, studs and nuts.

2 References

ISO 898, *Mechanical properties of fasteners —*

Part 1: Bolts, screws and studs.

Part 2: Nuts with specified proof load values.

Part 5: Set screws and similar threaded fasteners not under tensile stresses.

Part 6: Nuts with specified proof load values — Fine pitch thread.¹⁾

ISO 3269, *Fasteners — Acceptance inspection.*

ISO 3506, *Corrosion-resistant stainless steel fasteners — Specifications.*

ISO 4042, *Threaded components — Electroplated coatings components.¹⁾*

ISO 4759, *Tolerances for fasteners —*

Part 1: Bolts, screws and nuts with thread diameters $> 1,6$ and ≤ 150 mm and product grades A, B and C.

Part 2: Bolts, screws and nuts with thread diameters from 1 up to 3 mm and product grade F, for fine mechanics.

ISO 6157, *Fasteners — Surface discontinuities —*

Part 1: Bolts, screws and studs for general requirements.¹⁾

Part 2: Nuts with thread sizes M5 to M39.¹⁾

Part 3: Bolts, screws and studs for special requirements.¹⁾

ISO 8839, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals.*

¹⁾ At present at the stage of draft.

3 Specifications and reference International Standards

Material	Carbon steel Alloy steel	Stainless steel	Non-ferrous metal
Dimensions	See product standards.		
Mechanical properties	ISO 898/1 ISO 898/2 ISO 898/5 ISO 898/6	ISO 3506	ISO 8839
Tolerances	ISO 4759/1, ISO 4759/2		
Surface discontinuities	ISO 6157/1, ISO 6157/2, ISO 6157/3		
Finish	Requirements for electroplating are covered in ISO 4042.		
Acceptability	The acceptance procedure is covered in ISO 3269.		

4 General requirements

Standardized bolts, screws, studs and nuts are defined by the following elements:

- mechanical properties (material);
- product grade (tolerances);
- surface coatings (if required);
- special requirements (if agreed).

All information relates to fully manufactured products. Specific manufacturing processes are not required, except where they have been laid down in the individual standards or have been agreed between customer and supplier.

The product shall have intact surfaces and edges and shall be free of burrs consistent with the manufacturing methods used. It is not generally required that small burrs due to operations such as slotting, or resulting from forging, pressing or trimming

be removed. Any burr which influences the performance of the product or would be a safety hazard when handled, however, shall be removed.

Trimming burrs beyond the bearing face of bolts and screws is not permissible.

Centre holes for bolts and screws are permissible, unless otherwise specified.

The finish (surface) of the products shall be

- as processed for steel products not quenched and tempered;
- in general, black oxide for quenched and tempered steel products;
- plain for products made of stainless steel or non-ferrous metal.

Bolts, screws, studs and nuts shall be delivered in a clean condition and lightly oiled, if no other conditions have been agreed.

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