INTERNATIONAL STANDARD

ISO 7090

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Plain washers, chamfered — Normal series — Product grade A

Rondelles plates, chanfreinées — Série normale — Grade A



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Foreword

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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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 7090 was prepared by Technical Committee ISO/TC 2, Fasteners.

This second edition cancels and replaces the first edition (ISO 7090:1983), which has been technically revised.

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Plain washers chamfered — Normal series — Product grade A

1 Scope

This International Standard specifies the characteristics of normal-series, product-grade-A plain washers chamfered at the outside diameter, in the 200 HV and 300 HV hardness classes and of nominal sizes (nominal thread diameters) ranging from 5 mm to 64 mm inclusive.

Washers of hardness class 200 HV are suitable or

- bolts and screws of product grades A and B in property classes up to and including 8.8;
- nuts of product grades A and B in property classes up to and including 8;
- bolts, screws and nuts of stainless steel of similar chemical composition;
- case-hardened thread rolling screws.

Washers of hardness class 300 HV are suitable for

- bolts and screws of product grades A and B in property classes up to and including 10.9;
- nuts of product grades A and B in property classes up to and including

If dimensions other than those listed in this International Standard are required, they should be selected from those given in ISO 887.

When soft material pieces are clamped, or large clearance holes in the workpiece are used, the user should check the technical suitability of this type of washer.

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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 887:2000, Plain washers for metric bolts, screws and nuts for general purposes — General plan.

ISO 3269:2000, Fasteners— Acceptance inspection.

ISO 3506-1:1997, Mechanical properties of corrosion-resistant stainless-steel fasteners — Part 1: Bolts, screws and studs.

ISO 4042:1999, Fasteners — Electroplated coatings.

ISO 4759-3:2000, Tolerances for fasteners — Part 3: Plain washers for bolts, screws and nuts — Product grades A and C.

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

ISO 10683—1), Fasteners — Non-electrolytical applied zinc flake coatings.

3 Dimensions

See Figure 1 and Tables 1 and 2.

Figure 1 — Dimensions

¹⁾ To be published.