INTERNATIONAL STANDARD

ISO 7093-1

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Plain washers — Large series —

Part 1:

Product grade A

Rondelles plates — Série large —

Partie 1: 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 part of ISO 7093 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 7093-1 was prepared by Technical Committee ISO/TC 2, Fasteners.

This first edition of ISO 7093-1, together with ISO 7093-2, cancels and replaces ISO 7093:1983, which has been technically revised.

Chick Ocherated of the Strates ISO 7093 consists of the following parts, under the general title *Plain washers* — *Large series*:

Part 1: Product grade A

— Part 2: Product grade C

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Plain washers — Large series —

Part 1:

Product grade

1 Scope

This part of ISO 7093 specifies the characteristics of large-series, product-grade-A plain washers in the 200 HV and 300 HV hardness classes and of nominal sizes (nominal thread diameters) ranging from 3 mm to 36 mm inclusive.

Washers conforming to this part of ISO 7093 are intended for use in cases where soft material pieces are to be clamped or where there are large clearance holes in the workpiece. Nevertheless, in the latter case, the suitability of the washer thickness should be checked.

Washers of hardness class 200 HV are suitable for

- hexagon bolts and screws of product grades A and B in property classes up to and including 8.8;
- hexagon nuts of product grades A and B in property classes up to and including 8;
- hexagon 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

- hexagon bolts and screws of product grades A and B in property classes up to and including 10.9;
- hexagon nuts of product grades A and B in property classes up to and including 10.

If dimensions other than those listed in this part of ISO 7093 are required, they should be selected from those given in ISO 887.

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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:—1), 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.

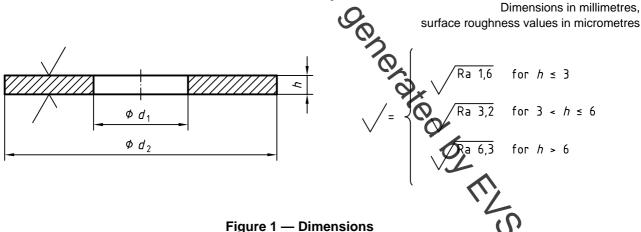
 Part 3: Plain washers for bolts, screws and nuts — Product grades A ISO 4759-3:2000, Tolerances for faster and C.

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

ISO 10683:—2), Fasteners — Non-electrolytical applied zinc flake coatings.

Dimensions 3

See Figure 1 and Tables 1 and 2.



To be published. (Revision of ISO 887:1983)

To be published. 2)