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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF  
CHINA**

**中华人民共和国国家标准**

GB/T 97.2-2002  
eqv ISO 7090:2000  
Replace GB/T 97.2-1985

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**Plain washers, chamfered-Product grade A**

**平垫圈 倒角型 A 级**

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## ISO 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 shall be drafted according to the rules given in Part 3 of ISO/IEC *Guidelines*.

Draft International Standards adopted by the technical committees shall be issued to all members for vote by ballot. At least 75% of affirmative votes from the members shall be obtained before Official publication of international standards.

Note: Some parts of this international standard may get involved in the patent right. ISO bears no responsibility in discriminating any or all patent right in this regard.

The international standard ISO 7090 is drafted by ISO/TC 2 – the Technical Committee for Fasteners.

The second editions of ISO 7090-1983 make some deletions and supplements to first edition, which are technical revisions.

# Plain washers, chamfered-Product grade A

## 1 Scope

This standard specifies large series plain washers with a normal specification (thread large diameter) within 5~64 mm, a hardness level of HV 200 and HV 300, and a product Grade of A.

Washers with a hardness level of HV200 apply for:

- Hexagon bolts and screws with performance rate up to Class 8.8 and product Grade of A and B;
- Hexagon nuts with performance rate up to Class 8 and product Grade of A and B;
- Stainless steel (or with similar chemical compositions) hexagon bolts, screws and hexagon nuts;
- Facehardened self-tightening screws.

Washers with a hardness level of HV300 apply for:

- Hexagon bolts and screws with performance rate up to Class 10.9 and product Grade of A and B;
- Hexagon nuts with performance rate up to Class 10 and product Grade of A and B;

If dimensions other than those listed in this standard are required, they should be selected from those given in GB/T 5286.

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.

## 2 Normative References

The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

GB/T 90.1-2002 Fasteners: Acceptance Inspection (idt ISO 3269:2000)

GB/T 90.2-2002 Fasteners: Markings and Package

GB/T 1237-2000 Fasteners: Marking Method (eqv ISO 8991:1986)

GB/T 3098.6-2000 Mechanical Properties of Fasteners: Stainless Bolts, Screws and Studs (idt ISO 3506-1:1997)

GB/T 3103.3-2000 Fasteners Tolerance: Plain Washers (idt ISO 4759-3:2000)

GB/T 4340.1-1999 Vickers Hardness Test of Metals-Part 1: Test Methods (eqv ISO 6507-1:1997)

GB/T 5267.1-2002 Fasteners: Galvanized coating (ISO 4042:1999, IDT)

GB/T 5267.2-2002 Fasteners: Non-electrolytic zinc sheet coating (ISO 10683, 2000, IDT)

GB/T 5286-2001 Plain Washers for Bolts, Screws and Nuts: General Program (idt ISO 887.2000)



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