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GB

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

中华人民共和国国家标准

GB/T 70.1-2008
Replace GB/T 70.1-2000

Hexagon Socket Head Cap Screws

内六角圆柱头螺钉

(ISO 4762:2004, MOD)

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Jointly issued by the General Administration of Quality Supervision, Inspection and Quarantine (GAQSIQ) and the Standardization Administration (SAC) of the People's Republic of China

Foreword

This Part is one of the national series standards on "inner hex screw" (including gauge). This series include:

- GB/T 70.1-2008 Hexagon Socket Head Cap Screws;
- GB/T 70.2-2008 Hexagon Socket Button Head Screws;
- GB/T 70.3-2008 Hexagon Socket Countersunk Head Screws;
- GB/T 70.4 Fine Thread of Hexagon Socket Head Cap Screws;
- GB/T 70.5-2008 Gauging of Hexagon Sockets;
- GB/T 77-2007 Hexagon Socket Set Screws with Flat Point;
- GB/T 78-2007 Hexagon Socket Set Screws with Cone Point;
- GB/T 79-2007 Hexagon Socket Set Screws with Dog Point;
- GB/T 80-2007 Hexagon Socket Set Screws with Cup Point;
- GB/T 5281-1985 Hexagon Socket Head Shoulder Screws

This Part is Part 1 of GB/T 70

This part is modified in relation to ISO 4762: 2004 "Hexagon Socket Head Cap Screws" (English edition), and the major modifications are as follows:

In the normative references, the international standard is replaced with national standard (Chapter 2);

— The requirements of the packing technology, which are not specified in ISO 4762, are provided in this Part (See Table 2);

—Simplified marks are not specified in ISO 4762 while this standard provides examples of simplified marks (5.2) in accordance with the simplification principle stated in GB/T 1237.

—Performance rate of the nonferrous metal screw are not specified in ISO 4760 while this part provides it (See Table 2).

This Part replaces GB/T 70.1-2000 "Hexagon Socket Head Cap Screws"

Compared with standard GB/T 70.1-2000, the main changes in this part are as follows:

—The normative references GB/T 5267.2 "Fasteners-Non-Electrolytically Applied Zinc Flake Coatings" and GB/T 70.5 "Gauging of Hexagon Sockets"(Chapter 2) are added;

—Performance rate is added:

$d \leq 24\text{mm}$: A3-70 and A5-70;

$24\text{mm} < d \leq 39\text{mm}$: A3-50 and A5-50 (see Table 2);

—Cancelled Appendix A;

—The original Appendix B "Mass of Hexagon Socket Head Cap Screws" was changed into Appendix A.

Appendix A of this part is informative.

This part was proposed by China Machinery Industry Federation.

This part is under the jurisdiction of the National Standardization Technical Committee of Fastening Piece (SAC/TC 85).

Drafting organization of this part: China Productivity Center for Machinery.

Participating organizations of this part: Shanghai Biaowu High-Tensile Fasteners Co, Ltd, Beijing Standard Fasteners Industrial (Group) Company, Shenyang Standard Part

Manufacture General Factory, Ningbo ZhongBin Fastener Manufacture Co. LTD.

Secretariat of National Technical Committee for Standardization of Fasteners is responsible for the explanation of this part.

The previous editions of the part replaced by these following ones:

——GB 70-58, GB 70-66, GB 70-76, GB 70-85, GB/T 70.1-2000.

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GB/T 70.1-2008

Hexagon Socket Head Cap Screws 内六角圆柱头螺钉

1 Scope

This part specifies the characteristics (8.8, 10.9, 12.9, A2-50, A2-70, A3-50, A3-70, A4-50, A4-70, A5-50, A5-70, CU 2 and CU 3) of hexagon socket head cap screws with coarse pitch thread from M 1.6 up to and including M64 and product grade A.

For approximate masses of screws see Appendix A.

If, in special cases, technical requirements other than those listed in this standard are required, they should be selected from existing standards, such as GB/T 196, GB/T 3106, GB/T 3098.1, GB/T 3098.6, GB/T 3098.10 and GB/T 3103.1.

2 Normative References

The following normative documents contain provisions which, through reference in this Part, constitute provisions of this part. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this part are encouraged to study whether the latest editions of these documents are applicable. For undated references, the latest edition of the normative document is applicable to this part.

GB/T 2 Fasteners-Ends of Parts with External Thread GB/T 2-2001, idt ISO 4753: 1999)

GB/T 70.5 Gauging of Hexagon Sockets (GB/T 70.5-2008, ISO 23429:2004, IDT)

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

GB/T 90.2 Fasteners-Marking and Packaging

GB/T 196 General Purpose Metric Screw Threads-Basic Dimensions (GB/T 196-2003, ISO 724: 1993, ISO General Purpose Metric Screw Threads-Basic Dimensions, MOD)

GB/T 197 General Purpose Metric Screw Threads-Tolerances (GB/T 197-2003, ISO 965-1:1998, ISO General Purpose Metric Screw Threads-Tolerances-Part 1: Principles and Basic Data, MOD)

GB/T 1237 Designation System for Fasteners (GB/T 1237-2000, eqv ISO 8991:1986)

GB/T 3098.1 Mechanical Properties of Fasteners-Bolts, Screws and Studs (GB/T 3098.1-2000, idt ISO 898-1:1999)

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

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