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

GB/T 6175-2016

**Hexagon nuts, style 2
(English Translation)**

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Foreword

GB/T 6175 is one national standard of "Hexagon nuts (part)" series. This series includes.

- GB/T 41, Hexagon nuts, style 1, grade C;
- GB/T 6170, Hexagon nuts, style 1;
- GB/T 6171, Hexagon Nuts, Style 1-Fine Pitch Thread;
- GB/T 6172.1, Hexagon thin nuts (chamfered);
- GB/T 6173, Hexagon thin nuts (chamfered) with fine pitch thread;
- GB/T 6174, Hexagon thin nuts - unchamfered;
- GB/T 6175, Hexagon nuts, style 2;
- GB/T 6176, Hexagon nuts, style 2, with fine pitch thread;
- GB/T 6177.1, Hexagon nuts with flange, style 2;
- GB/T 6177.2, Hexagon nuts with flange, style 2 - Fine pitch thread.

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 6175-2000 Hexagon nuts, style 2. Compared with GB/T 6175-2000, the main technical changes are as follows.

- deleted "If other technical requirements are required,... select among (such as GB/T 3098.2 and GB/T 3103.1)" (Clause 1 of Edition 2000);
- unified reference thread standards as GB/T 193, GB/T 9145 (Clause 2);
- deleted performance grade Grade 9 and added Grade 10 (Table 2);

- added QT - Quenching and tempering in mechanical properties of nuts (Table 2);
- deleted steel nut surface oxidation; added. hot-dip galvanized layer technical requirements shall be according to GB/T 5267.3 (Table 2);
- in marks, the performance grade shall be only allowed to omit. Grade 10, instead of Grade 9 (5.2);
- in marks, the surface treatment shall be only allowed to omit. the surface is not treated, instead of surface oxidation (5.2).

Hexagon nuts, style 2

1 Scope

This Standard specifies type sizes, technical conditions and marks of hexagon nuts, style 2.

This Standard is applicable to hexagon nuts, style 2 of which thread sizes are M5 ~ M36, performance grades are 10 and 12, the product grades are A and B. Grade A is used for nuts of which $D \leq M16$; Grade B is used for nuts of which $D > M16$.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 90.1, Fasteners--Acceptance inspection (GB/T 90.1-2002, ISO 3269.2000, IDT);

GB/T 90.2, Fasteners--Marking and packaging;

GB/T 193, General purpose metric screw threads - General plan (GB/T 193-2003, ISO 261.1998, MOD);

GB/T 1237, Designation system for fasteners (GB/T 1237-2000, eqv ISO 8991.1986);

GB/T 3098.2, Mechanical properties of fasteners - Nuts (GB/T 3098.2-2015, ISO 898-2:2012, MOD);

GB/T 3103.1, Tolerances for fasteners- Bolts, screws and nuts (GB/T 3103.1-2002, idt ISO 4759-1:2000);

GB/T 5267.1, Fasteners - Electroplated Coatings (GB/T 5267.1-2002, ISO 4042:1999, IDT);

GB/T 5267.2, Fasteners - Non-electrolytically applied zinc flake coatings (GB/T 5267.2-2002, ISO 10683:2000, IDT);

GB/T 5267.3, Fasteners - Hot dip galvanized coatings (GB/T 5267.3-2008,

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