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GB/T 6173-2015

Replacing GB/T 6173-2000

Hexagon Thin Nuts – Fine Pitch Thread

[ISO 8675:2012, Hexagon Thin Nuts Chamfered (Style 0) with
Metric Fine Pitch Thread – Product Grades A and B, MOD]

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Foreword

GB/T 6173 is one of the serial national standards of “Hexagon Nuts (Part)”, which include:

- GB/T 41 Hexagon Nuts, Style 1 – Product 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;
- GB/T 6173 Hexagon Thin Nuts – Fine Pitch Thread;
- GB/T 6174 Hexagon Thin Nuts – Unchamfered;
- GB/T 6175 Hexagon Nuts, Style 2;
- GB/T 6176 Hexagon Nuts, Style 2 – Fine Pitch Thread.

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 6173-2000 *Hexagon Thin Nuts – Fine Pitch Thread*; compared with GB/T 6173-2000, this Standard mainly has the following technical changes:

- Delete “if other technical requirements are needed, ... the selection in (GB/T 3098.15 and GB/T 3103.1).” (Chapter 1 of Edition 2000);
- Unify the reference thread standards to be GB/T 193, GB/T 9145 (Chapter 2);
- Modify the inner chamfer into $\theta=110^{\circ}\sim120^{\circ}$ (Figure 1);
- Increase the mechanical properties of steel nuts: QT – Quenching and Tempering (Table 3).

This Standard adopts re-drafting method to modify and use ISO 8675:2012 *Hexagon Thin Nuts Chamfered (Style 0) with Metric Fine Pitch Thread – Product Grades A and B* (English Edition).

This Standard has the following technical differences and causes from ISO 8675: 2012:

- Delete ISO 8675 provision: “if other technical requirements are needed, ... selection in ISO 4759-1” (Chapter 1), which don’t belong to the contents specified by this Standard;
- In the normative references, use national standards to replace the international

Hexagon Thin Nuts – Fine Pitch Thread

1 Scope

This Standard specifies the type and dimension, technical conditions and markings of hexagon thin nuts – fine pitch thread.

This Standard is applicable to the chamfered hexagon thin nuts – fine pitch thread with thread nominal diameter $D = 8\text{mm} \sim 64\text{mm}$; Performance Grades 04, 05, A2-025, A2-035, A4-025, A4-035, CU2, CU3 and AL4; Product Grades A and B. Grade A is applied to the nuts with $D \leq 16\text{mm}$; while Grade B is applied to the nuts with $D > 16\text{mm}$.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

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 Screw Threads – Diameters and Pitches (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 3098.10 Mechanical Properties of Fasteners - Bolts, Screws, Studs and Nuts Made of Non-Ferrous Metals (GB/T 3098.10-1993, eqv ISO 8839:1986)

GB/T 3098.15 Mechanical Properties of Fasteners – Nuts Made of Stainless Steel (GB/T 3098.15-2014, ISO 3506-2:2009, MOD)

GB/T 3103.1 Tolerances for Fasteners – Bolts, Screws and Nuts (GB/T 3103.1-2002, idt ISO 4759-1:2000)

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