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

GB/T 6183.1-2016

**Prevailing torque type hexagon nuts with flange (with
non-metallic insert), style 2
(English Translation)**

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Foreword

This Part of GB/T 6183 is one of the serial national standards of "Prevailing Torque Type Hexagon Nuts", which include.

- GB/T 889.1 Prevailing Torque Type Hexagon Nuts (with Non-Metallic Insert), Style 1;
- GB/T 889.2 Prevailing Torque Type Hexagon Nuts (with Non-Metallic Insert), Style 1 - Fine Pitch Thread;
- GB/T 6172.2 Prevailing Torque Type Hexagon Thin Nuts (with Non-Metallic Insert);
- GB/T 6182 Prevailing Torque Type Hexagon Nuts (with Non-Metallic Insert), Style 2;
- GB/T 6183.1 Prevailing Torque Type Hexagon Nuts with Flange (with Non-Metallic Insert), Style 2;
- GB/T 6183.2 Prevailing Torque Type Hexagon Nuts with Flange (with Non-Metallic Insert), Style 2 - Fine Pitch Thread;
- GB/T 6184 Prevailing Torque Type All-Metal Hexagon Nuts, Style 1;
- GB/T 6185.1 Prevailing Torque Type All-Metal Hexagon Nuts, Style 2;
- GB/T 6185.2 Prevailing Torque Type All-Metal Hexagon Nuts, Style 2 - Fine Pitch Thread;

--- GB/T 6187.1 Prevailing Torque Type All-Metal Hexagon with Flange, Style 2;

--- GB/T 6187.2 Prevailing Torque Type All-Metal Hexagon with Flange, Style 2 -
Fine Pitch Thread.

This Part belongs to Part 1 of GB/T 6183.

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

This Part replaced GB/T 6183.1-2000 Prevailing Torque Type Hexagon Nuts with
Flange (with Non-Metallic Insert); compared with GB/T 6183.1-2000, this Part has the
major technical changes as follows.

--- Modify the standard name;

--- Delete "if other technical requirements are needed,... the selection in GB/T

3098.9 and GB/T 3103.1." (Chapter 1 of Edition 2000);

--- Delete the bibliography of ISO 7043.

This Part was proposed by China Machinery Industry Federation.

This Part shall be under the jurisdiction of National Technical Committee for
Standardization of Fastener (SAC/TC 85).

Drafting organizations of this Part. China Productivity Center for Machinery.

Participating drafting organizations of this Part. Machinery Industry General Parts
Product Quality Supervision and Inspection Center, and Ningbo Zhongji Machine Parts
Inspection Co., Ltd..

This Part shall be interpreted by the Secretariat of National Technical Committee for
Standardization of Fastener.

The historical editions replaced by this Part are as follows.

--- GB/T 6183-1986;

--- GB/T 6183.1-2000.

Prevailing Torque Type Hexagon Nuts with
Flange (with Non-Metallic Insert), Style 2

1 Scope

This Part of GB/T 6183 specifies the type and dimension, technical conditions and markings of prevailing torque type hexagon nuts with flange (with non-metallic insert), style 2.

This Part is applicable to the prevailing torque type hexagon nuts with flange (with non-metallic insert), style 2 with thread specification M5~M20, Property Class 8 and 10, Product Grades A and B. Grade A is applied to the nuts with $D \leq 16$; while Grade B is applied to the nuts with $D > 16$ mm.

NOTE: such nuts equal to GB/T 6177.1 plus effective torque part.

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, idt ISO 3269.2000)

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 3098.9 Mechanical Properties of Fasteners - Prevailing Torque Type Steel Nuts (GB/T 3098.9-2010, ISO 2320.2008, IDT)

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 5276 Fasteners - Bolts, Screws, Studs and Nuts - Symbols and Descriptions of Dimensions (GB/T 5276-2015, ISO 225.2010, MOD)

GB/T 5779.2 Fasteners - Surface Discontinuities - Nuts (gb/t 5779.2-2000, idt ISO 6157-2.1995)

GB/T 6177.1 Hexagon Nus with Flange, Style 2 (GB/T 6177.1-2016, ISO 4161.2012, IDT)

GB/T 9145 General Purpose Metric Screw Threads - Limits of Sizes for the Screw Threads of Medium Quality and Preferable Plan (GB/T 9145-2003, ISO 965-2.1998, MOD)

GB/T 16938 Fasteners - General Requirements for Bolts, Screws, Studs and Nuts (GB/T 16938-2008, ISO 8992.2005, IDT)

3 Dimension

The types and dimensions of nuts can refer to Figure 1 and Table 1.

The dimension codes and markings shall conform to GB/T 5276.

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