

ICS 21.060.20

CCS J 13



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

GB/T 13681.2-2017

Replacing GB/T 13681.2-2010

Hexagon weld nuts with flange

焊接六角法兰面螺母

(English Translation)

Issued on: December 29, 2017

Implemented on: April 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Size

Foreword

"Weld nut" series of national standards include.

--- GB/T 13680 welded square nut

--- GB/T 13681 (revised will be changed to GB/T 13681.1) welded hex nuts this section GB/T 13681 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 13681.2-2010 "welded hex flange nut," compared with GB/T 13681.2-2010, the main technology the changes are as follows.

--- Reference thread standard according to the other nuts product standard unified GB/T 193, GB/T 9145 (see Chapter 2);

--- Increase the thread size M8 x 1, M10 x 1.25, M10 x 1, M12 x 1.25 (see Table 1);

--- According to the limit deviation h14 modify the minimum s (see Table 1);

--- Increasing the material carbon equivalent (CEV) does not exceed 0.53% (see Table 2);

--- Increase the surface defects according to GB/T 5779.2 (see Table 2);

--- Modify the fine thread nut to ensure the load value (see Table 3).

This section uses the redrafted method Amendment uses ISO 21670:2014 "Fasteners welded hexagonal flange nut" (in English).

This part of ISO 21670:2014 technical differences and the reasons are as follows.

--- Normative references, replace the international standard with our country standard (see Chapter 2), increase the reference GB/T 90.2 (see Table 2), GB/T 193 (see Table 2), GB/T 9145 (see Table 2) and GB/T 1237 (see 5.1), delete the ISO 724, ISO 965-3 Reference to meet the basic standards of China's fasteners;

--- According to the limit deviation h14 given directly to the minimum and nominal s (= maximum), for ease of use (see Table 1);

--- ISO 21670:2014 Chapter 4 of the editing methods and other ISO fastener product standards, the content of 4.1 to 4.7 Reason in Table 2 (see Table 2);

--- Increase packaging technology requirements (see Table 2), in line with China's basic standards fasteners;

--- Modify the mark example To simplify the mark example (see 5.2), to comply with the provisions of GB/T 1237.

This section also made the following editorial changes.

--- Modify the standard name.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee fasteners (SAC/TC85) centralized.

This section is responsible for the drafting unit. Machine Productivity Promotion Center.

Participated in the drafting of this section. Austrian exhibition Industrial Co., Ltd., Yuhuan Tian Ye Machinery Co., Ltd., general machinery industry components quality of products Quantity Supervision and Testing Center.

This part of the National Standardization Technical Committee fasteners responsible for the interpretation.

This part replaces the standards previously issued as.

--- GB/T 13681.2-2010.

Welded hexagonal flange nut

1 Scope

GB/T 13681 provisions of this part of the welded hexagonal flange nut type size, technical conditions and markings.

This section applies to the thread size M5 ~ M16, coarse thread and thread diameter D = 8mm ~ 16mm, fine thread, product Grade A welding hexagonal flange nut.

In line with the provisions of this section of the nut can be consistent with the provisions of GB/T 3098.1, performance level ≤ 10.9 with the use of bolts.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 90.1 fastener inspection (GB/T 90.1-2002, ISO 3269:2000, IDT) GB/T 90.2 Fasteners signs and packaging GB/T 193 ordinary thread diameter and pitch series (GB/T 193-2003, ISO 261:1998, MOD) GB/T 1237 fastener marking method (GB/T 1237-2000, eqvISO 8991.1986) GB/T 3098.2 Fasteners mechanical properties of nuts (GB/T 3098.2-2015, ISO 898-2:2009, MOD) GB/T 3103.1 Fasteners Tolerances Bolts, screws, studs and nuts (GB/T 3103.1-2002, idtISO 4759-1.2000) GB/T 5779.2 fasteners surface defects nuts (GB/T 5779.2-2000, idtISO 6157-2.1995) GB/T 9145 ordinary thread medium precision, the preferred series of the ultimate size (GB/T 9145-2003, ISO 965-2:1998, MOD) GB/T 16938 General requirements for fasteners bolts, screws, studs and nuts (GB/T 16938-2008, ISO 8992.

2005, IDT)

3 Size

Nut type size shown in Figure 1 and Table 1.