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

GB/T 44320-2024

**Hexagonal slotted reduced height nuts with MJ threads for
aerospace**

航空航天用MJ螺纹六角开槽薄螺母

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document is modified to adopt ISO 9618:2016 "Aerospace Grade is 450 MPa (ambient temperature)/120 °C, 450 MPa (ambient temperature)/235°C, 600 MPa (ambient temperature)/425°C, 900 MPa (ambient temperature)/235°C, 900 MPa (ambient temperature) °C)/315 °C,900 MPa(ambient temperature)/650 °C,1 100 MPa(ambient temperature)/235 °C,1 100 MPa(ambient temperature) °C)/730 °C, 1 250 MPa (ambient temperature)/600 °C, normal groove on opposite sides, MJ thread hexagon thin nut dimensions.

Compared with ISO 9618:2016, this document has the following structural adjustments.

Added Chapter 3 "Terms and Definitions"; -Chapter 4 corresponds to Chapter 3 of ISO 9618:2016.-the technical differences between this document and ISO 9618:2016 and their reasons are as follows.

GB/T 91 replaces ISO 1234 (see Table 1) to suit my country's national conditions. -the following editorial changes were made to this document.

To coordinate with the existing standards, the name of the standard is changed to "MJ thread hexagonal slotted thin nuts for aerospace use"; -Change Notes 1 and 2 in the scope to footnotes of the article (see Chapter 1) to suit my country's national conditions;

The presentation form of the structure diagram has been changed (see Figure 1) to be more in line with the drawing habits of the domestic industry;

The letter representation method in the structural dimensions has been changed (see Figure 1 and Table 1) to be more in line with the marking habits of the domestic industry;

The notes of Figure 1 were placed in the main text, Notes 1 and 2 were added, some

footnotes were deleted and some were added as needed in the figure.

Footnotes to suit my country's national conditions.

1 Scope

This document specifies the structure, dimensions, strength grade of MJ thread hexagonal slotted thin nuts (hereinafter referred to as "nuts") for aerospace use

450 MPa1)/120 °C2), 450 MPa1)/235 °C2), 600 MPa1)/425 °C2), 900 MPa1)/235 °C2), 900 MPa1)/315 °C2),

900 MPa1)/650 °C2), 1 100 MPa1)/235 °C2), 1 100 MPa1)/730 °C2), 1 250 MPa1)/600 °C2).

This document applies to the design and manufacture of MJ thread hexagonal slotted thin nuts for aerospace use.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies.

in this document.

GB/T 91 Split pin (GB/T 91-2000, ISO 1234:1997, IDT) ISO 5855-2 Aerospace MJ threads Part 2: Limits of sizes for bolt and nut threads (Aerospace-MJ threads-Part 2: Limit dimensions for bolts and nuts) ISO 8788 Aerospace-Nuts, metric-Tolerances of form and position form and position)

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Structure and size

The structure and dimensions of the nut shall conform to the provisions of Figure 1 and Table 1, and the shape and position tolerances shall conform to the provisions of ISO 8788.

The dimensions and tolerances of the nuts are for the parts after surface coating and before lubrication.

1) 450 MPa, 600 MPa, 900 MPa, 1 100 MPa and 1 250 MPa, when the highest strength grade bolts are used for testing, the nuts the minimum tensile strength load that can be

sustained at a certain temperature without failure.

2) 120°C, 235°C, 425°C, 315°C, 650°C, 730°C and 600°C, the nut will not be permanently changed after it is subjected to the highest use temperature and returns to room temperature.

The maximum operating temperature depends on the material or surface treatment state of the nut.