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

GB/T 44321-2024

**Self-locking single lug anchor with counterbore nuts with MJ
threads for aerospace**

航空航天用带沉头窝的MJ螺纹单耳托板自锁螺母

(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 from ISO 3168:1998 Aerospace 1100 MPa/235°C, 1100 MPa/315°C and 1 100 MPa/425 °C MJ threaded countersunk single ear support plate self-locking nut dimensions.

This document has the following structural adjustments compared to ISO 3168:1998.

Added Chapter 3 "Terms and Definitions"; -Chapter 4 corresponds to Chapter 3 of ISO 3168:1998.-the technical differences between this document and ISO 3168:1998 and their reasons are as follows.

ISO 5858:1991 (see Chapter 3 of ISO 3168:1998) has been deleted. The relevant requirements of this part of the technical content are determined by the user.

Adapt to my country's technical conditions;

ISO 5855-2 replaces ISO 5855-2:1988 (see Table 1), and ISO 8788 replaces ISO 8788:1987 (see Chapter 3) Facilitates the use of the latest version of files;

The connection between the metal cap and the nut and the test conditions (see Chapter 3 of ISO 3168:1998) have been deleted. This part is determined by the user.

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 single ear support plate self-locking nut with countersunk socket for aerospace use"; -the presentation form of the structure diagram has been modified (see Figure 1) to be more in line with the drawing habits of the domestic industry;

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

Change the note of Figure 1 to a paragraph of the figure, delete the contents of the serial numbers 1) and 2) in the note, and add footnotes a and b to conform to my country's national conditions. -

1 Scope

This document specifies the structure of MJ threaded single-ear plate self-locking nuts with countersunk sockets for aerospace use (hereinafter referred to as "self-locking nuts") and sizes, strength grades are 1 100 MPa 1)/235 °C 2), 1 100 MPa1)/315 °C2) and 1 100 MPa1)/425 °C2).

This document applies to the design of MJ threaded single ear plate self-locking nuts with countersunk socket for aerospace applications.

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.

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 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 self-locking nut are shown in Figure 1 and Table 1. The dimensions and tolerances of the nut are for the surface of the part after coating and before lubricant is added.

state.

1) The minimum tensile strength load that a nut can withstand at ambient temperature without destroy.

2) After the nut is subjected to the maximum operating temperature and returns to room temperature, its original properties will not be permanently changed. The maximum

operating temperature depends on the material or Surface treatment status.