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

GB/T 46723-2025

**Nuts, anchor, self-locking, floating, single lug, with counterbore
and MJ threads for aerospace - Dimensions**

航空航天用带沉头窝的MJ螺纹单耳托板游动自锁螺母 尺寸

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is modified to adopt ISO 3224:1998 "Aerospace-grade single-ear self-locking nuts with countersunk heads and MJ threads, classification.

Dimensions for 1100MPa/235°C, 1100MPa/315°C, and 1100MPa/425°C.

This document includes a new chapter on "Terms and Definitions".

The technical differences between this document and ISO 3224:1998, and the reasons therefor, are as follows.

---The scope has been revised (see Chapter 1) to adapt to my country's technological conditions and the latest technological requirements;

---The format of the structural diagram has been changed (see Figure 1) to conform to domestic drafting practices;

---The requirement for a surface roughness (Ra) of 1.6 (see Figure 1 of ISO 3224:1998) has been removed to adapt to my country's technical conditions and the latest technological advancements.

Technical requirements;

---The normatively referenced GB/T 43924.2 replaces ISO 5855-2:1999 (see Table 1, ISO 5855-2:1999's...).

Table 1), to adapt to my country's technical conditions and requirements.

The following editorial changes have been made to this document.

---To harmonize with existing standards, the standard name has been changed to

"Aerospace-grade MJ threaded single-ear support plate self-locking screw with countersunk notch".

Mother Size;

---The standard ISO 5858:1991, which was not referenced in this document, has been removed;

---The description of surface roughness and sharp edge blunting requirements in the figure has been changed to a figure caption (see Figure 1), which conforms to domestic standards.

Labeling conventions;

---The format for representing the floating dimensions in the figure has been changed to footnotes (see Figure 1), conforming to domestic labeling conventions;

---The format for describing dimensions in the table has been changed to footnotes (see Table 1), conforming to domestic labeling conventions;

---The notation method for letters in structural dimensions has been changed (see Figure 1 and Table 1) to conform to domestic labeling conventions;

---The order of letters in the table has been changed (see Table 1) to conform to domestic labeling conventions.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Aircraft Standardization Technical Committee (SAC/TC435).

1 Scope

This document specifies the structure and dimensions of the MJ threaded single-ear self-locking nut with countersunk head for aerospace applications, and its strength grade.

For 1100MPa1)/235°C2), 1100MPa1)/315°C2) and 1100MPa1)/425°C2).

This document applies to the design of MJ threaded single-ear self-locking nuts with countersunk head for aerospace applications (hereinafter referred to as "nuts").

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 43924.2 Aerospace MJ Threads Part 2: Limiting Dimensions of Bolt and Nut Threads
(GB/T 43924.2-2024, ISO 5855-2:1999, MOD) ISO 8788 Aerospace Nuts, Metric
Tolerances

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Structure and Dimensions

The structure of the nut is shown in Figure 1, and the dimensions of the nut are shown in Table 1. This document specifies the dimensions of the nut after surface coating and before lubrication.

Inch and tolerance.

- 1) When tested with bolts of the highest strength grade, the nut can withstand the minimum tensile load at ambient temperature without failure.
- 2) After the nut has been subjected to the maximum operating temperature, its original properties will not be permanently changed upon returning to room temperature. The maximum operating temperature depends on the material or surface treatment of the nut.

The rational state.