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

GB/T 42098-2022

**Self-locking single-lug anchor reduced series nuts with MJ
thread for aerospace**

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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.

This document is modified to adopt ISO 3191.1998 "Aerospace nuts, backing plates, self-locking, fixed, single lug, thinning series, with countersink,

MJ thread, rating. 1100MPa (at ambient temperature)/235°C, 1100MPa (at ambient temperature)/315°C and 1100MPa (at ambient temperature)

ambient temperature)/425°C Dimensions".

A chapter "Terms and Definitions" has been added to this document.

The technical differences between this document and ISO 3191.1998 and the reasons are as follows.

--- Deleted ISO 5858 (see Chapter 2 and Chapter 3 of ISO 3191.1998). International standards are not commonly used in my country and should be determined by the user

Relevant requirements are established to adapt to the technical conditions of our country;

---Changed the expression form of the structural diagram (see Figure 1), which is more in line with the drawing habits of the domestic industry;

---Changed the expression method of letters in the structural dimensions (see Figure 1 and Table 1) and the order of letters in the table (see Table 1), which is more in line with the national

The labeling habits of the industry.

The following editorial changes have been made to this document.

--- In order to coordinate with existing standards, change the name of the standard to "Thin

Self-Locking Nuts for Aerospace";

--- Change the relevant requirements on the optional form with a sealed cover to the figure for description (see Figure 1), which is more in line with domestic usage habits.

1 Scope

This document specifies the structure and dimensions of thin self-locking nuts (hereinafter referred to as "nuts") for aerospace applications, and the strength class is

1100MPa1)/235 degrees C2), 1100MPa1)/315 degrees C2) and 1100MPa1)/425 degrees C2).

This document applies to the design of lug plate thin self-locking nuts for aerospace applications.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 5855-2 Aerospace MJ Threads Part 2.Limiting dimensions of bolts and nuts (Aerospace-MJThreads-

ISO 8788 Aerospace nuts, metric form and position tolerances (Aerospace-Nuts, metric-Tolerancesofformand

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Structure and dimensions

The structure and size of the nut shall comply with the regulations in Figure 1 and Table 1.

Dimensions and tolerances apply after any surface coating treatment and before any lubricant.

1) The minimum tensile strength load that a nut can withstand without failure at ambient temperature when tested with a bolt of the highest strength class.

2) After the nut is subjected to the highest service temperature, it returns to room

temperature without permanently changing its original characteristics. The maximum service temperature depends on the material or surface of the nut.

mental state.

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