
Aeronavtika - Gredna matica in navojni obroč, samozapiralni, levi ali desni navoj MJ, iz toplotnoodpornega jekla FE-PA2601 (A286), posrebreni - Tehnična specifikacija

Aerospace series - Shaft-nut and threaded ring, self-locking, right- or left-hand MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated - Technical specification

Luft- und Raumfahrt - Wellenmutter und Gewinding, selbstsichernd, Rechts- oder Links-MJ-Gewinde, aus hochwarmfestem Stahl FE-PA2601 (A286), versilbert - Technische Lieferbedingung

Série aérospatiale - Écrous d'arbres et bagues filetées, à freinage interne, filetage MJ à droite ou à gauche, en acier résistant à chaud FE-PA2601 (A286), argentés - Spécification technique

Ta slovenski standard je istoveten z: prEN 3299

ICS:

49.030.30	Matice	Nuts
49.030.50	Podložke in drugi blokirni elementi	Washers and other locking elements

oSIST prEN 3299:2026

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 3299

July 2026

ICS 49.030.50; 49.030.30

Will supersede EN 3299:2019

English Version

Aerospace series - Shaft-nut and threaded ring, self-locking, right- or left-hand MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated - Technical specification

Série aéronautique - Écrous d'arbres et bagues filetés, à freinage interne, filetage MJ à droite ou à gauche, en acier résistant à chaud FE-PA2601 (A286), argentés - Spécification technique

Luft- und Raumfahrt - Wellenmutter und Gewinding, selbstsichernd, Rechts- oder Links-MJ-Gewinde, aus hochwarmfestem Stahl FE-PA2601 (A286), versilbert - Technische Lieferbedingung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 3299:2026) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 3299:2019.

prEN 3299:2026 includes the following significant technical changes with respect to EN 3299:2019:

— Table 3, surface discontinuities process updated.

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1 Scope

This document specifies the characteristics, qualification and acceptance requirements for self-locking shaft-nuts and threaded rings, with right- or left-hand MJ threads, in FE-PA2601, silver-plated, for aerospace applications.

Temperature class: 450 °C¹.

It is applicable whenever referenced.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2786, *Aerospace series - Electrolytic silver plating of fasteners*

EN ISO 6507-1, *Metallic materials - Vickers hardness test - Part 1: Test method (ISO 6507-1)*

EN ISO 6508-1, *Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1)*

EN ISO 3452-1, *Non-destructive testing - Penetrant testing - Part 1: General principles (ISO 3452-1)*

ISO 21920-3:2021, *Geometrical product specifications (GPS) — Surface texture: Profile — Part 3: Specification operators*

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

ASTM E112,² *Standard Test Methods for Determining Average Grain Size*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

finished nut or ring

nut or ring ready for use, inclusive of any possible treatments and/or surface coatings, as specified in the product standard or definition document

3.2

definition document

document specifying all the requirements for finished nuts or rings

¹ Maximum test temperature of the parts.

² Published by American Society for Testing and Materials (ASTM), available at: <https://www.astm.org/>.

3.3**batch**

quantity of finished nuts or rings, of the same type and same diameter, produced from the same material obtained from the same melt, manufactured in the course of the same production cycle, following the same manufacturing route and having undergone all the relevant heat treatments and surface treatments

3.4**production cycle**

period during which production proceeds without any voluntary or unforeseen change in manufacturing parameters

3.5**heat treatment cycle**

period during which the oven continuously remains at nominal treatment temperature

3.6**surface treatment cycle**

period during which the surface treatment proceeds without any voluntary or unforeseen change in surface treatment parameters

3.7**surface discontinuities**

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3.7.1**crack**

rupture in the material which may extend in any direction and which may be intercrystalline or transcrystalline in character

3.7.2**seam**

open surface discontinuity

3.7.3**lap**

surface discontinuity caused by folding over metal fins or sharp corners

3.7.4**inclusions**

non-metallic particles originating from the material manufacturing process

Note 1 to entry: These particles may be isolated or arranged in strings.

3.8**sampling plan**

plan according to which one or more samples are taken in order to obtain information and possibly reach a decision