



SLOVENSKI STANDARD
oSIST prEN 6118:2024
01-maj-2024

Aeronavtika - Premaz IVD iz čistega aluminija za pritrdilne elemente

Aerospace series - Pure aluminium IVD coating for fasteners

Luft- und Raumfahrt - Verfahrensspezifikation - Aluminiumschutz für Verbindungselemente

Série aérospatiale - Revêtements IVD d'aluminium purs pour fixations

Ta slovenski standard je istoveten z: prEN 6118

ICS:

49.025.20	Aluminij	Aluminium
49.040	Prevleke in z njimi povezani postopki, ki se uporabljajo v letalski in vesoljski industriji	Coatings and related processes used in aerospace industry

oSIST prEN 6118:2024

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
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ICS 49.040

English Version

Aerospace series - Pure aluminium IVD coating for fasteners

Série aérospatiale - Revêtements IVD d'aluminium purs pour fixations

Luft- und Raumfahrt - Verfahrensspezifikation - Aluminiumschutz für Verbindungselemente

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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 6118:2024) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (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.

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prEN 6118:2024 (E)

1 Scope

This document defines the characteristics and the tests required to qualify and control lots of high purity ($\geq 99\%$) aluminium coatings applied by ion-vapor deposition (IVD) on fasteners.

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 2437, *Aerospace series — Chromate conversion coatings (yellow) for aluminium and aluminium alloys*

EN 4729, *Aerospace series — Trivalent chromium based chemical conversion coatings for aluminium and aluminium alloys*

EN ISO 2819, *Metallic coatings on metallic substrates — Electrodeposited and chemically deposited coatings — Review of methods available for testing adhesion (ISO 2819)*

ISO 9227,¹ *Corrosion tests in artificial atmospheres — Salt spray tests*

ASTM B117,² *Standard Practice for Operating Salt Spray (Fog) Apparatus*

MIL-DTL-5541,³ *Chemical Conversion Coatings on Aluminum and Aluminum Alloys*

MIL-DTL-83488,³ *Coating, Aluminum, High Purity*

NASM 1312, *Fastener test methods*

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

lot

set of fasteners of identical target specifications, produced in continuous or consecutive processes with identical processing parameters

3.2

batch

set of fasteners, travellers and/or similar parts that are coated with identical parameters at the same time or consecutively with the same coating equipment

¹ Published by: ISO International Organization for Standardization <http://www.iso.ch/>.

² Published by: ASTM International (US) <https://www.astm.org/>.

³ Published by: DoD National (US) Mil. Department of Defense <https://www.defense.gov/>.