

Aerospace series - Paints and varnishes - Nature and  
method for surface preparation of test pieces in  
aluminium alloys

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 3837:2019 sisaldab Euroopa standardi EN 3837:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 3837:2019 consists of the English text of the European standard EN 3837:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 49.040

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 3837

August 2019

ICS 49.040

English Version

Aerospace series - Paints and varnishes - Nature and  
method for surface preparation of test pieces in aluminium  
alloys

Série aérospatiale - Peintures et vernis - Nature et  
méthodes de préparation de surface des éprouvettes  
en alliages d'aluminium

Luft- und Raumfahrt - Beschichtungsstoffe -  
Oberflächenvorbereitungstyp und -methoden für  
Proben aus Aluminiumlegierungen

This European Standard was approved by CEN on 12 May 2019.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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## European foreword

This document (EN 3837:2019) 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 Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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## 1 Scope

This document defines the nature of and the surface preparation method for test pieces in aluminium alloys intended for testing paints and varnishes used for aerospace applications.

## 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 2090, *Aerospace series — Aluminium alloy AL-P2024- — T3 — Clad sheet and strip —  $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$*

EN 2092, *Aerospace series — Aluminium alloy AL-P7075- — T6 or T62 — Clad sheet and strip —  $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$*

EN 2101, *Aerospace series — Chromic acid anodizing of aluminium and wrought aluminium alloys*

EN 2284, *Aerospace series — Sulphuric acid anodizing of aluminium and wrought aluminium alloys*

EN 2334, *Aerospace series — Chromic-sulphuric acid pickle of aluminium and aluminium alloys*

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

EN 2696, *Aerospace series — Aluminium alloy AL-P7075- — T6 or T62 — Sheet and strip —  $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$*

EN 2709, *Aerospace series — Aluminium alloy 2024-T3510 — Bar and section —  $1,2 \leq (a \text{ or } D) \leq 150 \text{ mm}$  — With peripheral coarse grain control<sup>1)</sup>*

EN 4704, *Aerospace series — Tartaric-Sulphuric-Acid anodizing of aluminium and aluminium wrought alloys for corrosion protection and paint pre-treatment (TSA)*

EN 4707, *Aerospace series — Acid pickling of aluminum and aluminum alloy without hexavalent chromium*

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

ISO 3270, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing*

## 3 Terms and definitions

No terms and definitions are listed in this document.

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

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

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1) Published as ASD-STAN Standard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) (<http://www.asd-stan.org/>)