



# SLOVENSKI STANDARD

## SIST EN 4908:2025

01-februar-2025

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### Aeronavtika - Postopek kemične pretvorbe magnezija in magnezijevih zlitin brez šestvalentnega kroma

Aerospace series - Hexavalent chromium free chemical conversion process of magnesium and magnesium alloys

Luft- und Raumfahrt - Chrom(VI)-freies chemisches Umwandlungsverfahren von Magnesium und Magnesiumlegierungen

Série aérospatiale - Procédé de conversion chimique sans chrome hexavalent du magnésium et des alliages de magnésium

**Ta slovenski standard je istoveten z: EN 4908:2024**

[SIST EN 4908:2025](#)

<http://standards.sist.si/categ/standard/sist/4908/173-2785-4074-acc6-2c130-10d1a03/sist-en-4908-2025>

#### **ICS:**

49.025.15	Neželezove zlitine na splošno	Non-ferrous alloys in general
77.120.20	Magnezij in magnezijeve zlitine	Magnesium and magnesium alloys

**SIST EN 4908:2025**

**en,fr,de**



EUROPEAN STANDARD

EN 4908

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2024

ICS 49.025.15

English Version

## Aerospace series - Hexavalent chromium free chemical conversion process of magnesium and magnesium alloys

Série aérospatiale - Procédé de conversion chimique sans chrome hexavalent du magnésium et des alliages de magnésium

Luft- und Raumfahrt - Chrom(VI)-freies chemisches Umwandlungsverfahren von Magnesium und Magnesiumlegierungen

This European Standard was approved by CEN on 3 June 2024.

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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 COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN 4908:2024) 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 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 June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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**EN 4908:2024 (E)****1 Scope**

This document specifies the requirements for the hexavalent chromium free chemical conversion process of magnesium and magnesium alloys to ensure an adhesion base before bonding and painting.

The purpose of this document is to specify design, quality and manufacturing requirements. It does not specify complete in-house process instructions; these are specified in the processors detailed process instructions.

**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 4902, *Aerospace series — Surface treatments — Definitions and test methods*

EN ISO 2409, *Paints and varnishes — Cross-cut test (ISO 2409)*

EN ISO 2812-2, *Paints and varnishes — Determination of resistance to liquids — Part 2: Water immersion method (ISO 2812-2)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227)*

ASTM B117,<sup>1</sup> *Standard Practice for Operating Salt Spray (Fog) Apparatus*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 4902 and the following 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>

<https://standards.iteh.ai/catalog/standards/sist/f2369173-276f-487f-ae8a-5e19640d1a83/sist-en-4908-2025>

— IEC Electropedia: available at <https://www.electropedia.org/>

**3.1****OEM**

producer who has the design authority and manufactures products or components that are purchased by a company and retailed under that purchasing company's brand name

Note 1 to entry: The OEM can also apply the process.

**3.2****manufacturer**

company or person who makes, manufactures, assembles components

Note 1 to entry: The manufacturer can also apply the process.

**3.3****processor**

company or person who applies the process

<sup>1</sup> Published by ASTM International, available at: <https://www.astm.org/>.