



SLOVENSKI STANDARD

SIST EN 2516:2024

01-februar-2024

Aeronavtika - Pasiviranje korozijsko odpornih jekel in dekontaminacija nikljevih ali kolbatovih zlitin

Aerospace series - Passivation of corrosion resisting steels and decontamination of nickel or cobalt base alloys

Luft- und Raumfahrt - Passivieren von korrosionsbeständigen Stählen und Dekontaminierung von Nickel- oder Kobaltlegierungen

Série aérospatiale - Passivation des aciers résistant à la corrosion et décontamination des alliages base nickel ou cobalt

Ta slovenski standard je istoveten z: EN 2516:2023

[SIST EN 2516:2024](#)

<https://standards.sist.net/catalog/standards/sist/6da170a6-01da-4ecc-b693-250766362666/sist-en-2516-2024>

ICS:

49.025.10 Jekla Steels

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EUROPEAN STANDARD

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English Version

Aerospace series - Passivation of corrosion resisting steels and decontamination of nickel or cobalt base alloys

Série aérospatiale - Passivation des aciers résistant à la
corrosion et décontamination des alliages base nickel
ou cobalt

Luft- und Raumfahrt - Passivieren von
korrosionsbeständigen Stählen und Dekontaminierung
von Nickel- oder Kobaltlegierungen

This European Standard was approved by CEN on 9 July 2023.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.

Document Preview

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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 2516:2023) 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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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.

This document supersedes EN 2516:2020.

The main changes with respect to the previous edition are listed in Annex B.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: 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 2516:2023 (E)

1 Scope

This document specifies several chemical methods of passivation for corrosion resisting steels (austenitic, ferritic, martensitic and precipitation hardenable) and of decontamination for nickel or cobalt base alloys.

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

3 Terms and definitions

No terms and definitions are listed in this document.

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/>

4 Purpose of process

To improve the corrosion resistance characteristics of a part after such treatments as machining, forming, tumbling and shot peening by removing foreign metal contamination due to these operations.

Passivation shall not be used on castings, welded or brazed parts, carburized or nitrided surfaces nor on parts with mating surfaces when entrapment of acids may occur.

5 Applicability and limitations of the process

This document is applicable for the corrosion resisting alloys listed in Table A.2.

This document is not applicable for:

- unalloyed or low-alloyed carbon steel;
- powder metallurgy alloys;
- surface modified steel i.e. with case-hardened, carburized or nitrided surfaces;
- soldered or brazed parts;
- items containing joints and cavities where it is not possible to mask prior to passivation or to ensure complete removal of the passivation solution.