



**SLOVENSKI STANDARD**  
**SIST EN 3026:2001**

**01-junij-2001**

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**Aerospace series - Test method for dry film lubricants - Corrosion test on steels specimens**

Aerospace series - Test method for dry film lubricants - Corrosion test on steels specimens

Luft- und Raumfahrt - Prüfverfahren für Trockenschmierstoffilm - Korrosionsprüfung an Proben aus Stahl

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Série aérospatiale - Méthode d'essai pour films lubrifiants solides - Essai de corrosion sur éprouvettes en acier

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**Ta slovenski standard je istoveten z: EN 3026:1994**

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**ICS:**

49.035

Sestavni deli za letalsko in vesoljsko gradnjo

Components for aerospace construction

**SIST EN 3026:2001**

**en**

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EUROPEAN STANDARD

EN 3026

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1994

UDC 621.892.620.193:669.14:629.7

Descriptors: Aircraft industry, lubricants, solids, films, corrosion tests, tests specimen, steels

English version

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

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**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This standard was submitted for Formal Vote, and the result was positive.

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of an identical text or by endorsement, at the latest by July 1994, and conflicting national standards shall be withdrawn at the latest by July 1994.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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## 1 Scope

This standard specifies a test method to verify that the dry film lubricant has no corrosive effect on steels.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2491	Aerospace series - Molybdenum disulphide dry film lubricants applied to fasteners <sup>1)</sup>
EN 3021	Aerospace series - Molybdenum disulphide dry lubricants to be applied as a film - Technical specification <sup>1)</sup>
EN 3032	Aerospace series - Test method for dry film lubricants - Thickness measurement

## 3 Specimens and test equipment

Three specimens in 0,18 % (nominal) carbon steel of approximately 75 mm x 150 mm x 3 mm, polished on one surface to obtain a surface roughness  $R_a = 0,15 \mu\text{m}$  to  $0,3 \mu\text{m}$ .

A container with a lid, 2/3 filled with distilled water or any other equivalent equipment to meet the requirements of clause 4.

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## 4 Procedure

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Degrease the specimens with an appropriate solvent and dry them.

Apply a dry film lubricant to EN 2491, to the polished surface of each specimen immediately after degreasing. Verify to EN 3032 that the thickness meets the requirements of EN 3021.

Place the specimens in a humid atmosphere ( $95 \pm 3$ ) % at ( $23 \pm 2$ ) °C for 30 h.

## 5 Expression of results

Examine the specimens visually. Any discolouration, pits or any other sign of corrosion, indicate that the dry film lubricant has a corrosive effect.

## 6 Test report

It shall include the following :

- reference to this standard;
- film designation to EN 3021;
- application method to EN 2491;
- curing conditions;
- visual inspection results.

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<sup>1)</sup> In preparation at the date of publication of this standard