



SLOVENSKI STANDARD
SIST EN 3027:2001

01-junij-2001

Aerospace series - Test method for dry film lubricants - Salt spray test

Aerospace series - Test method for dry film lubricants - Salt spray test

Luft- und Raumfahrt - Prüfverfahren für Trockenschmierstoffilm - Salzsprühnebelprüfung

Série aérospatiale - Méthode d'essai pour films lubrifiants solides - Essai au brouillard salin

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Ta slovenski standard je istoveten z: EN 3027:1994

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ICS:

49.035

Sestavni deli za letalsko in
vesoljsko gradnjo

Components for aerospace
construction

SIST EN 3027:2001

en

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EUROPEAN STANDARD

EN 3027

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1994

UDC 621.892:620.193.272:669.14:629.7

Descriptors: Aircraft industry, lubricants, solids, films, corrosion tests, salt spray tests

English version

**Aerospace series - Test method for dry film
lubricants - Salt spray test**

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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.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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 dry film lubricants ensure the required corrosion protection after exposure to salt spray.

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.

ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests
EN 2491	Aerospace series - Molybdenum disulphide dry film lubricants applied to fasteners ¹⁾
EN 2793	Aerospace series - Phosphate treatment of ferrous alloys ¹⁾
EN 3021	Aerospace series - Molybdenum disulphide dry lubricants to be applied as a film - Technical specification ¹⁾
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 about 75 mm x 150 mm x 3 mm.

An apparatus suitable for the measurement of the coating thickness and a salt spray chamber to ISO 9227.

4 Procedure

Degrease the specimens and dry abrasive blast both surfaces and edges of the specimens with clean dry alumina of 125 µm grain size.

Phosphate the specimens according to EN 2793 : zinc phosphate to a mass per unit area of not less than 7 g/m² or manganese phosphate to a mass per unit area of not less than 4 g/m².

Measure the thickness of the specimen taking care not to damage the phosphating.

Apply the dry lubricant to the surfaces and edges in accordance with EN 2491. After curing, to avoid the edge effect, seal the edges on 10 mm width with a suitable sealing compound.

¹⁾ In preparation at the date of publication of this standard

Verify according to EN 3032 that the thickness meets the requirements of EN 3021.

Test the specimens according to ISO 9227. After an exposure for 96 h, remove them and rinse them in deionized water to remove salt residues.

5 Expression of results

Examine the specimens visually, note the number and size of any rust spots and the number of blisters on each specimen.

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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