



SLOVENSKI STANDARD
SIST EN 3032:2001

01-junij-2001

Aerospace series - Test method for dry film lubricants - Thickness measurement

Aerospace series - Test method for dry film lubricants - Thickness measurement

Luft- und Raumfahrt - Prüfverfahren für Trockenschmierstoffilm - Messung der Dicke

Série aérospatiale - Méthode d'essai pour films lubrifiants solides - Mesurage de l'épaisseur

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ICS:

49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction
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EUROPEAN STANDARD

EN 3032

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1994

UDC 621.892:620.1:531.717.1:629.7

Descriptors: Aircraft industry, lubricants, solids, films, dimensional measurements, thickness measurements

English version

**Aerospace series - Test method for dry film
lubricants - Thickness measurement**Série aérospatiale - Méthode d'essai pour films
lubrifiants solides - Mesurage de l'épaisseurLuft- und Raumfahrt - Prüfverfahren für
Trockenschmierstoffilm - Messung der Dicke**STANDARD PREVIEW**
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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.

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

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

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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EN 3032:1994
AECMA

1 Scope

This standard specifies a test method to measure the thickness of a dry film lubricant.

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 2091	Aerospace series - Aluminium alloy 2024-T4 - Clad sheet and strip $0,4 \leq a \leq 6$ mm ¹⁾
EN 2101	Aerospace series - Chromic acid anodizing of wrought aluminium and aluminium alloys
EN 3021	Aerospace series - Molybdenum disulphide dry lubricants to be applied as a film - Technical spécification ²⁾

3 Specimens

3.1 Flat specimens for qualification or acceptance tests on products

Unless otherwise stated in the other test methods, the specimens are in aluminium alloy EN 2091, about 75 mm x 150 mm x 0,6 mm ; they can be anodized to EN 2101 (with sealing).

3.2 Cylindrical specimens for inspection of process

When the thickness cannot be measured on the parts, use a comparison test specimen consisting of a cylinder of the same material as the parts concerned, 80 mm in length and 5 mm, 10 mm or 20 mm in diameter, the nearest to that of the concerned parts.

4 Procedure

4.1 Flat specimens

Measure, if necessary with a template, the thickness of the uncoated specimen, then that of the coated specimen on several defined points in order to verify the even distribution of the dry film lubricant.

Between the two measurements apply the dry lubricant to one or both faces of the specimens.

4.2 Cylindrical specimens

Measure the diameter of the uncoated test specimen, then that of the coated specimen on several defined points in order to verify the even distribution of the dry film lubricant on the entire surface.

Between the two measurements apply the dry lubricant over the whole surface of the test specimens in the same manner as on the parts.

¹⁾ Published as AECMA Standard at the date of publication of this standard

²⁾ In preparation at the date of publication of this standard

5 Test report

It shall include the following :

- reference to this standard;
- designation to EN 3021;
- number and position of the measuring points;
- values obtained before and after the application of the dry lubricant.

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