



# SLOVENSKI STANDARD SIST EN 2591-307:2001

**Aerospace series - Elements of electrical and optical connection - Test methods - Part 307: Salt mist**

Aerospace series - Elements of electrical and optical connection - Test methods - Part 307: Salt mist

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 307: Salznebel

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Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 307: Brouillard salin

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**Ta slovenski standard je istoveten z: EN 2591-307:1998**

**ICS:**

49.060 Štejni in optični elementi za povezavo električnih in optičnih sistemov v letalski tehniki  
Aerospace electric equipment and systems

**SIST EN 2591-307:2001**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 2591-307

June 1998

ICS 49.060

Descriptors: aircraft industry, aircraft equipment, connecting equipment, test

English version

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This European Standard was approved by CEN on 22 June 1997.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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EUROPEAN 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 received the approval of the National Associations and the Official Services of the member countries of AECMA, 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 December 1998, and conflicting national standards shall be withdrawn at the latest by December 1998.

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

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1998  
AEROSPACE MANUFACTURERS  
ASSOCIATION  
LONDON

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EUROPEAN COMMITTEE OF STANDARDIZATION



## 1 Scope

This standard specifies a method <sup>1)</sup> of assessing the effects of salt mist on elements of connection. It shall be used together with EN 2591.

## 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 2591	Aerospace series - Elements of electrical and optical connection - Test methods - General
EN 2591-101	Aerospace series - Elements of electrical and optical connection - Test methods - Part 101: Visual examination
EN 2591-205	Aerospace series - Elements of electrical and optical connection - Test methods - Part 205: Housing (shell) electrical continuity
EN 2591-408	Aerospace series - Elements of electrical and optical connection - Test methods - Part 408: Mating and unmating forces <sup>2)</sup>

## 3 Preparation of specimens

**3.1** The specimens shall be prepared according to the technical specification.

**3.2** Unless specified in the technical specification, the following details shall be stated:

- number of mating and unmating operations before test (if applicable);
- specimens mated or unmated (if applicable);
- mounting method, position and definition of specimen wiring;
- type of cable (if applicable);
- duration of the test;
- initial measurements (if applicable);
- final measurements and requirements (if applicable).

## 4 Apparatus

### 4.1 Test chamber

It shall be so designed that:

- the conditions are maintained within the specified limits in 4.2 and 5.2;
- a sufficiently large volume is available, so that the installed specimens do not influence these conditions;
- the spray is not directed at the specimens under test;
- liquid cannot drip on the specimens.

1) This method shall not be considered a general corrosion test.

2) Published as AECMA Prestandard at the date of publication of this standard

## 4.2 Salt mist

The solution for producing the salt mist shall be prepared by dissolving  $(50 \pm 1)$  g of sodium chloride ( $\text{NaCl}$ ) analytical reagent quality in distilled or demineralized water to obtain  $(1 \pm 0,02)$  ℓ of final solution at 20 °C. The pH shall lie between 6,5 and 7,2.

The solution shall have a temperature equal to that in the chamber.

The sprayed solution shall not be re-used.

## 5 Method

### 5.1 Initial measurements (if applicable)

They shall be carried out as specified.

### 5.2 Procedure

5.2.1 The temperature in the test chamber and of the solution shall be maintained at  $(35 \pm 2)$  °C.

5.2.2 The spraying of the solution shall continue during the whole test.

The pH value shall be checked at the beginning and at the end of the test.

5.2.3 The specimens shall be divided into lots, so that they can be tested in all of the positions specified.

They shall not be in contact with each other or with any other metal part.

5.2.4 The specimens shall be subjected to one of the following severities, unless otherwise specified:

- 48 h;
- 96 h;
- 500 h.

### 5.3 Recovery

The specimens shall be washed in running and/or demineralized water and then dried.

### 5.4 Final measurements and requirements (if applicable)

The specimens shall be submitted to the following test sequence:

- EN 2591-101, paying particular attention to:
  - 1) cracking;
  - 2) flaking or peeling of the plating;
  - 3) pitting of exposed metal surfaces;
- EN 2591-205 (if applicable);
- EN 2591-408 (if applicable).