



# SLOVENSKI STANDARD

## SIST EN 2591-307:2012

01-oktober-2012

Nadomešča:

SIST EN 2591-307:2001

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**Aeronavtika - Elementi električnih in optičnih povezav - Preskusne metode - 307.**  
**del: Slana megla**

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

<http://www.sistatalog/standards/sist/e71a0227-8706-4c42-846e-f2ed2fc6fbb8/sist-en-2591-307-2012>

**Ta slovenski standard je istoveten z: EN 2591-307:2012**

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**ICS:**

49.060

Letalska in vesoljska  
električna oprema in sistemi

Aerospace electric  
equipment and systems

**SIST EN 2591-307:2012**

**en,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2591-307**

July 2012

ICS 49.060; 49.090

Supersedes EN 2591-307:1998

English Version

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

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

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

This European Standard was approved by CEN on 23 March 2012.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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## Foreword

This document (EN 2591-307:2012) 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 Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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 January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2591-307:1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## EN 2591-307:2012 (E)

### 1 Scope

This European Standard specifies a method of assessing the effects of salt mist on elements of connection.

It should be used together with EN 2591-100.

The test is based on EN 60068-2-11.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: 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*

EN 60068-2-11:1999, *Environmental testing — Part 2-11: Tests — Test Ka: Salt mist (IEC 60068-2-11:1981)*

### 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

The test chamber shall meet the requirements of EN 60068-2-11:1999, Clause 3.

## 4.2 Salt mist

The salt solution shall meet the requirements of EN 60068-2-11:1999, Clause 4.

## 5 Method

### 5.1 Initial measurements (if applicable)

They shall be carried out as specified in the technical specification.

### 5.2 Procedure

The specimens shall be tested in accordance with EN 60068-2-11:1999, Clause 7.

### 5.3 Recovery

To aid in examination, specimens shall be prepared in the following manner, unless otherwise specified. Salt deposits shall be removed by a gentle wash or a dip in running water not warmer than 38 °C and a light brushing, if necessary, using a soft-hairbrush or plastic-bristle brush. The specimens shall then be allowed to dry in accordance with EN 60068-2-11:1999, Clause 8.

### 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:

— cracking;

— flaking or peeling of the plating;

— pitting of exposed metal surfaces;

— EN 2591-205 (if applicable);

— EN 2591-408 (if applicable).

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