BS EN 2591-307:2012



BSI Standards Publication

Aerospace series — Elements of electrical and optical connection — Test methods

Part 307: Salt mist



National foreword

This British Standard is the UK implementation of EN 2591-307:2012. It supersedes BS EN 2591-307:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2012. Published by BSI Standards Limited 2012

ISBN 978 0 580 66948 4

ICS 49.060; 49.090

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2012.

Amendments issued since publication

Date Text affected

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.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Forew	vord	3
1	Scope	4
2	Normative references	4
3	Preparation of specimens	4
4	Apparatus	4
5	Method	5

BS EN 2591-307:2012 EN 2591-307:2012 (E)

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.

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).





British Standards Institution (BSI)

BSI is the national body responsible for preparing British Standards and other standards-related publications, information and services.

BSI is incorporated by Royal Charter. British Standards and other standardization products are published by BSI Standards Limited.

About us

We bring together business, industry, government, consumers, innovators and others to shape their combined experience and expertise into standards -based solutions.

The knowledge embodied in our standards has been carefully assembled in a dependable format and refined through our open consultation process. Organizations of all sizes and across all sectors choose standards to help them achieve their goals.

Information on standards

We can provide you with the knowledge that your organization needs to succeed. Find out more about British Standards by visiting our website at bsigroup.com/standards or contacting our Customer Services team or Knowledge Centre.

Buying standards

You can buy and download PDF versions of BSI publications, including British and adopted European and international standards, through our website at bsigroup.com/shop, where hard copies can also be purchased.

If you need international and foreign standards from other Standards Development Organizations, hard copies can be ordered from our Customer Services team.

Subscriptions

Our range of subscription services are designed to make using standards easier for you. For further information on our subscription products go to bsigroup.com/subscriptions.

With **British Standards Online (BSOL)** you'll have instant access to over 55,000 British and adopted European and international standards from your desktop. It's available 24/7 and is refreshed daily so you'll always be up to date.

You can keep in touch with standards developments and receive substantial discounts on the purchase price of standards, both in single copy and subscription format, by becoming a **BSI Subscribing Member**.

PLUS is an updating service exclusive to BSI Subscribing Members. You will automatically receive the latest hard copy of your standards when they're revised or replaced.

To find out more about becoming a BSI Subscribing Member and the benefits of membership, please visit bsigroup.com/shop.

With a **Multi-User Network Licence (MUNL)** you are able to host standards publications on your intranet. Licences can cover as few or as many users as you wish. With updates supplied as soon as they're available, you can be sure your documentation is current. For further information, email bsmusales@bsigroup.com.

BSI Group Headquarters

389 Chiswick High Road London W4 4AL UK

Revisions

Our British Standards and other publications are updated by amendment or revision.

We continually improve the quality of our products and services to benefit your business. If you find an inaccuracy or ambiguity within a British Standard or other BSI publication please inform the Knowledge Centre.

Copyright

All the data, software and documentation set out in all British Standards and other BSI publications are the property of and copyrighted by BSI, or some person or entity that owns copyright in the information used (such as the international standardization bodies) and has formally licensed such information to BSI for commercial publication and use. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI. Details and advice can be obtained from the Copyright & Licensing Department.

Useful Contacts:

Customer Services

Tel: +44 845 086 9001

Email (orders): orders@bsigroup.com
Email (enquiries): cservices@bsigroup.com

Subscriptions

Tel: +44 845 086 9001

Email: subscriptions@bsigroup.com

Knowledge Centre

Tel: +44 20 8996 7004

Email: knowledgecentre@bsigroup.com

Copyright & Licensing

Tel: +44 20 8996 7070 Email: copyright@bsigroup.com

