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Environmental testing –
Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test

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COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ENVIRONMENTAL TESTING –

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International Standard IEC 60068-2-60 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test.

This third edition cancels and replaces the second edition, published in 1995, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

– updated IEC format;
– updated normative references list;
– addition of information of the working volume;
– revision of the test procedure;
– revision of the figures in Annex B.

The text of this standard is based on the following documents:

FDIS	Report on voting
104/655/FDIS	104/656/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60068 series, published under the general title *Environmental testing*, can be found on the IEC website.

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ENVIRONMENTAL TESTING –

Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test

1 ~~General~~ Scope

This part of IEC 60068-2 determines the corrosive influence of operating and storage indoor environments on electrotechnical products components, equipment and materials, particularly contacts and connections, considered separately, integrated into a subassembly or assembled as a complete equipment.

It provides test methods giving information, on a comparative basis, to aid the selection of materials, choice of production processes and component design, with regard to corrosion resistance. A guide to the selection of methods and test duration is provided in Annex C.

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.

~~60512-2: 1985, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 2: General examination, Electrical continuity and contact resistance tests, Insulation tests and voltage stress tests*~~

IEC 60512-2-1, *Connectors for electronic equipment – Tests and measurements – Part 2-1: Electrical continuity and contact resistance tests – Test 2a: Contact resistance – Millivolt level resistance method*

IEC 60512-3-1, *Connectors for electronic equipment – Tests and measurements – Part 3-1: Insulation tests – Test 3a: Insulation resistance*

ISO 431~~:1981~~, *Copper refinery shapes*

IEC 60068-2-60

Edition 3.0 2015-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test

Essais d'environnement – Partie 2-60: Essais – Essai Ke: Essai de corrosion dans un flux de mélange de gaz



IEC 60068-2-60:2015-06(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ENVIRONMENTAL TESTING –

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Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test

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IEC 60512-3-1, *Connectors for electronic equipment – Tests and measurements – Part 3-1: Insulation tests – Test 3a: Insulation resistance*

ISO 431, *Copper refinery shapes*

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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ESSAIS D'ENVIRONNEMENT –

Partie 2: Essais – Essai Ke: Essai de corrosion dans un flux de mélange de gaz

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La Norme internationale IEC 60068-2-60 a été établie par le comité d'études 104 de l'IEC: Conditions, classification et essais d'environnement.

Cette troisième édition annule et remplace la deuxième édition publiée en 1995. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

– mise à jour du format de l'IEC;
– mise à jour de la liste de références normatives;
– ajout d'informations concernant le volume de travail;

– révision de la procédure d'essai;
– révision des figures dans l'Annexe B.

Le texte de cette norme est issu des documents suivants:

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Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette norme.

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ESSAIS D'ENVIRONNEMENT –

Partie 2: Essais – Essai Ke: Essai de corrosion dans un flux de mélange de gaz

1 Domaine d'application

La présente partie de l'IEC 60068-2 établit l'influence corrosive de l'environnement sur des composants de produits électrotechniques, des équipements et des matériels, en fonctionnement ou stockés à l'intérieur de bâtiments, en particulier sur des contacts et des connexions, pris individuellement, intégrés dans un sous-ensemble ou faisant partie d'un équipement complet.

Cette norme présente des méthodes d'essais comparatifs permettant de sélectionner des matériaux, de choisir des procédés de fabrication et de concevoir des composants en fonction de la résistance à la corrosion. Un guide pour la sélection des méthodes et des durées d'essai figure en Annexe C.

2 Références normatives

Les documents suivants sont cités en référence de manière normative, en intégralité ou en partie, dans le présent document et sont indispensables pour son application. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60512-2-1, *Connecteurs pour équipements électroniques – Essais et mesures – Partie 2-1: Essais de continuité électrique et de résistance de contact – Essai 2a: Résistance de contact – Méthode du niveau des millivolts*

IEC 60512-3-1, *Connecteurs pour équipements électroniques – Essais et mesures – Partie 3-1: Essais d'isolement – Essai 3a: Résistance d'isolement*

ISO 431, *Formes brutes d'affinage du cuivre*