### INTERNATIONAL STANDARD



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# Road vehicles — Environmental conditions and testing for electrical and electronic equipment —

Part 5: Chemical loads

Véhicules routiers — Spécifications d'environnement et essais de l'équipement électrique et électronique —

Partie 5: Contraintes chimiques



Reference number ISO 16750-5:2010(E)

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### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent

ISO 16750-5 was prepared by Technical Committee ISO/TC 22, Road vehicles, Subcommittee SC 3,

ntion is c. ts. ISO shall n. ) 16750-5 was prepared ectrical and electronic equipment. Iso second edition cancels and replaces evised. ISO 16750 consists of the following parts, under the gener. and testing for electrical and electronic equipment: Part 1: General Part 1: General Part 1: General Part 1: Joads Mannata Mann This second edition cancels and replaces the first edition (ISO 16750-5:2003), which has been technically

ISO 16750 consists of the following parts, under the general title Road vehicles - Environmental conditions

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# Road vehicles — Environmental conditions and testing for electrical and electronic equipment —

## Part 5: Chemical loads

### 1 Scope

This part of ISO 16750 applies to electrical and electronical systems/components for road vehicles. This part of ISO 16750 describes the potential environmental stresses and specifies tests and requirements recommended for the specific monthing location on/in the road vehicle.

This part of ISO 16750 describes chemical loads. It is not designed to evaluate whether an electrical/electronic system/component is suitable for performing during continuous contact with an agent, such as a fuel pump immersed continuously in fuel.

NOTE Conditions and testing for a continue contact can be determined from other standards or agreed upon between customer and supplier.

### 2 Normative references

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

ISO 16750-1, Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 1: General

ISO 16750-4, Road vehicles — Environmental conditions and electronic equipment — Part 4: Climatic loads

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16750-1 apply

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### 4 Tests

### 4.1 General

Components and associated parts that can come into contact with the specified chemical agents shall be resistant to those agents. The components and associated parts shall be tested with all agents they are likely to come into contact with, except for those materials which can be shown by documentary evidence to be immune to the contaminant and which need not be tested.

A material is considered to be immune to a contaminant if there is no change in properties sufficient to affect material performances over the time and at the temperature specified in this clause.