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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

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Foreword

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 32, *Electrical and electronic components and general system aspects*.

This third edition cancels and replaces the second edition (ISO 16750-5:2010), which has been technically revised.

The main changes are as follows:

— integrating and harmonizing contents from ISO 19453-5:2018 (e.g. change of Table 2);

— reorganization of test conditions and application methods in context (4.6, 4.7);

— addition of application method (4.6, Table 1);

— reconsideration of chemical agents (Clause 5, Table 3).

A list of all parts in the ISO 16750 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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

Part 5: Chemical loads

1 Scope

This document applies to electric and electronic systems and components for vehicles including electric propulsion systems and components with maximum working voltages according to voltage class B. It describes the potential environmental stresses and specifies tests and requirements recommended for the specific mounting location on/in the vehicle.

This document describes chemical loads.

This document is not intended to apply to environmental requirements or testing for systems and components of motorcycles and mopeds.

NOTE Conditions and testing for a continuous contact with chemical agents can be determined from other standards or upon agreement between the customer and the supplier.

Systems and their components released for production, or systems and their components already under development prior to the publication date of this document, can be exempted from fulfilling the changes in this edition compared to the previous one.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 testing for electrical 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.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

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