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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 28046.5-2013

**Road vehicles -- Environmental conditions and testing for
electrical and electronic equipment -- Part 5: Chemical loads
(English Translation)**

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Foreword

GB/T 28046 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment consists of the following 5 parts.

- Part 1.General;
- Part 2.Electrical Loads;
- Part 3.Mechanical Loads;
- Part 4.Climatic Loads;
- Part 5.Chemical Loads.

This Part belongs to Part 5 of GB/T 28046.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part adopts the re-drafting method to modify and use ISO 16750-5.2010 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment - Part 5.Chemical Loads.

The technical differences and causes between this Part and ISO 16750-5 are as follows.

- Present the contents of Table 3 in the original text into the form of an appendix for the reference of the user; delete the Clause 5; add Appendix A (Informative).
- Add the provisions of "the type and supplier of the chemical reagents can be negotiated between the supplier and the purchaser; the ingredients listed in the Appendix can be used for reference" to 4.1; add the operability of the standard.

--- Add the provisions of "wetting time shall be negotiated between the supplier and the purchaser" to 4.6; add the operability of the standard.

--- Add "any method can be selected when there are multiple wetting methods" to Note a in Table 1; add the operability of the standard.

--- The contents of 4.3 does not reflect the number of cycles; delete the description of "increase the number of cycles" in the original text to facilitate the understanding of the standard.

--- Simplify the description in 4.8 of the original text to facilitate the understanding of the standard.

--- Unify the room temperature parameters involved in the original text 4.4, 4.5, 4.6 into the general test conditions in 4.3.

This Part made the following editorial modification against ISO 16750-5:2010.

--- Delete the Foreword of international standard.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Automobiles (SAC/TC 114).

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Road Vehicles - Environmental Conditions and Testing

for Electrical and Electronic Equipment -

Part 5. Chemical Loads

1 Scope

This Part of GB/T 28046 describes the chemical loads that may be encountered by systems/components installed at specific locations on/in the vehicle; and specifies the test and requirements.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 28046.1-2011 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment - Part 1.General (ISO 16750-1.2006, MOD)

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB/T 28046.1 apply.

4 Test

Unless otherwise specified, the DUT shall be tested at room temperature (RT) at (23 ± 5) °C and relative humidity of 25%~75%. Determine the chemical reagents according to the installation position of DUT and as per the Table 1. Each DUT uses one kind of reagent to conduct one test cycle.

Appendix A

(Informative)

Chemical Reagent Compositions

Table A.1 gives the description about the chemical reagent compositions for the reference of the user.

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