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Fuel cell road vehicles — Cold start performances under sub-zero temperature — Vehicles fuelled with compressed hydrogen

Véhicules routiers à piles à combustible — Performances de démarrage à froid à des températures inférieures à zéro — Véhicules alimentés en hydrogène comprimé

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Contents

Page

Foreword ... **iv**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Abbreviated terms ... **2**
5 Test instrumentation ... **2**
6 Vehicle conditions ... **2**
7 Test temperature conditions ... **3**
8 Test methods ... **3**
8.1 General ... 3
8.2 Soak method under sub-zero temperature ... 3
8.3 Cold start performance test under sub-zero temperature ... 3
8.4 Launch performance test under sub-zero temperature ... 4
8.4.1 Determining the dynamometer load coefficient ... 4
8.4.2 Setting of vehicle's driving mode ... 4
8.4.3 Test method ... 4
8.4.4 Tolerance of drive cycle test ... 5
8.4.5 Test termination criteria ... 5
8.5 Requirements of data acquisition ... 5
9 Test data processing ... **5**
10 Test records ... **5**
Annex A (informative) **Test process** ... **6**
Annex B (informative) **Energy consumption data processing method** ... **7**
Annex C (informative) **Test records for cold start performances of FCHEV under sub-zero temperature** ... **9**
Bibliography ... **11**

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Foreword

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This document was prepared by Technical Committee ISO/TC 22 *Road vehicles*, Subcommittee SC 37, *Electrically propelled vehicles*.

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Fuel cell road vehicles — Cold start performances under sub-zero temperature — Vehicles fuelled with compressed hydrogen

1 Scope

This document describes the test methods for the cold start performances of fuel cell hybrid electric vehicles (FCHEV) under sub-zero temperature conditions.

This document applies to FCHEV as passenger cars and light duty trucks with a maximum authorized total mass of 3 500 kg (hereinafter referred to as vehicle) and fuelled with compressed hydrogen.

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/TR 8713, *Electrically propelled road vehicles — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TR 8713 and the following 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/

3.1
ADT
applicable driving test
single driving test schedule which is specified for a relevant region

Note 1 to entry: Chassis dynamometer test schedules for a relevant region are the worldwide light-duty test cycle (WLTC) or the urban dynamometer driving schedule (UDDS).

[SOURCE: ISO 23274-2:2021, 3.1]

3.2
FCHEV
fuel cell hybrid electric vehicle
electrically propelled vehicle with a *rechargeable energy storage system (RESS)* (3.6) and a fuel cell system as power sources for vehicle propulsion

[SOURCE: ISO 23828:2022, 3.7]

3.3
fuel cell stack
assembly of two or more fuel cells, which are electrically connected

[SOURCE: ISO 6469-3:2021, 3.20]

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