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| TNI | Pokyny k používaniu normy EN 45545-2 pre NiCd batérie v dráhových vozidlách | TNI CLC/TR 50718 28 2401 |
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Guidelines for the use of EN 45545-2 for Ni-Cd batteries on board rolling stock

Táto technická normalizačná informácia obsahuje anglickú verziu CLC/TR 50718:2025.
This Technical standard information includes the English version of CLC/TR 50718:2025.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 08/25

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English Version

Guidelines for the use of EN 45545-2 for Ni-Cd batteries on board rolling stock

Lignes directrices pour l'utilisation de l'EN 45545-2 pour les batteries Ni-Cd à bord du matériel roulant

Leitfaden für die Verwendung von EN 45545-2 für Nickel-Cadmium-Batterien auf Bahnfahrzeugen

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CLC/TR 50718:2025 (E)

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European foreword

This document (CLC/TR 50718:2025) has been prepared by CLC/TC 9X “Electrical and electronic applications for railways”.

This document supersedes CLC/TR 50718:2021.

CLC/TR 50718:2025 includes the following significant technical changes with respect to CLC/TR 50718:2021:

— Examples were added for clarification in Clause 6.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

CLC/TR 50718:2025 (E)**Introduction**

The design, verification and testing of Ni-Cd batteries on board rolling stock is standardized by EN 50547:2013, which refers to the EN 45545 series and particularly to EN 45545-2:2020+A1:2023 in the clause “Fire behaviour requirements”.

However, the referred series deals with the Ni-Cd batteries in a generic and limited way:

— EN 45545-2:2020+A1:2023 deals with Ni-Cd batteries as non-listed products.

As a consequence, the application of the EN 45545 series to the case of Ni-Cd batteries on board of trains opens the door to very different interpretations.

Designers, assessors, producers and customers have very different points of view which could result in problematic aspects which are difficult to be fixed and agreed upon.

In order to overcome such situations, TC9X decided to set up the Survey Group CLC TC9X WG31 with the task to prepare a new standard; the SG31 proposes in the meantime to issue guidelines for the application of the EN 45545 series in case of Ni-Cd batteries on board rolling stock.

This document has been prepared according to decision 58/12 taken during the TC 9X plenary meeting and the following approved NWIP, see BT decision D166/C095 in document BT166/DG11706/DL.

This document is a report of the available experience and best practice in applying the EN 45545 series to the case of Ni-Cd batteries on board rolling stock.

1 Scope

This document guides users of the EN 45545 series, particularly EN 45545-2:2020+A1:2023, in the application of these standards in designing and assessing Ni-Cd batteries on board trains for their fire protection measures.

This document excludes any new requirements, considering only the requirements stated by the above listed standards.

However, since the EN 45545 series contain generic requirements and do not specifically refer to Ni-Cd batteries, this document helps the application for those batteries.

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.

EN 45545-1:2013, *Railway applications - Fire protection on railway vehicles - Part 1: General*

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