

STN	Olovené štartovacie batérie Časť 5: Mechanické vlastnosti krytov a rukovätí batérií	STN EN 50342-5 36 4310
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Lead-acid starter batteries - Part 5: Mechanical properties of battery housings and handles

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/25

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English Version

**Lead-acid starter batteries - Part 5: Mechanical properties of
battery housings and handles**

Batteries d'accumulateurs de démarrage au plomb - Partie
5: Propriétés mécaniques des boîtiers et poignées de
batteries

Blei-Akkumulatoren-Starterbatterien - Teil 5: Mechanische
Eigenschaften von Batteriegehäusen und Griffen

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Contents

Page

European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 General.....	5
5 Properties of raw materials.....	5
5.1 General.....	5
5.2 Resistance against chemical substances	5
6 Production of battery housings	6
6.1 General.....	6
6.2 Test on disruptive strength	6
6.3 Warm storage.....	7
6.4 Heat resistance test.....	7
7 Mechanical properties of batteries	8
7.1 General.....	8
7.2 Top load test	8
7.3 Impact test.....	9
7.4 Strength of the handles tested with continuous load.....	11
7.5 Strength of the handle tested with sudden load	12
7.6 Hardness of hold-downs for bottom fixation.....	13
7.7 Temperature change	15
Annex A (normative) Mandatory tests and requirements to prove compliance with EN 50342-5.....	16
Annex B (informative) Datasheet 'Material for battery housings'	17
Annex C (informative) Datasheet 'Specimen of battery container'	19
Annex D (informative) Statistical analysis and damage score calculation of impact test results.....	20
D.1 General.....	20
D.2 Definition of defects	20
D.3 Examples of defects	20
D.4 Calculation scheme	21
D.5 Evaluation.....	21
D.6 Example	21
Annex E (informative) Laboratory setup to test resistance against chemical substances	23
Annex F (informative) Drawing of adapter for pulling device	24

European foreword

This document (EN 50342-5:2025) has been prepared by CLC/TC 21X, "Secondary cells and batteries".

The following dates are fixed:

- latest date by which this document has to be (dop) 2026-10-31
implemented at national level by publication of
an identical national standard or by
endorsement
- latest date by which the national standards (dow) 2028-10-31
conflicting with this document have to be
withdrawn

This document supersedes EN 50342-5:2010 and all of its amendments and corrigenda (if any).

EN 50342-5:2025 includes the following significant technical changes with respect to EN 50342-5:2010:

- improvement of the structure and the wording of the document;
- clear definition of tests and requirement levels that need to be passed to state EN 50342-5 compliance;
- separation between test procedures and requirements;
- differentiation between system level tests and requirements compared to component level tests and requirements.

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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.

EN 50342-5:2025 (E)**1 Scope**

This document is applicable to housing and accessory parts of lead-acid batteries made of polypropylene.

Lead-acid batteries are used primarily as a power source for the starting of internal combustion engines, lighting and for auxiliary equipment of road vehicles. These batteries are all referred to as starter batteries.

This document is applicable to starter batteries for passenger cars and for commercial or industrial vehicles.

Battery housing and accessory parts according to this document do not provide any protection of the polypropylene against aging due to light. The parts are intended to be used within the engine compartment or within battery boxes where they are protected from light.

The purpose of this document is to define requirements for raw material used to produce housing and accessory parts for starter batteries, to define requirements of the physical properties of battery housing and to define uniform test procedures for validation.

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 50342-2, *Lead-acid starter batteries - Part 2: Dimensions of batteries and marking of terminals*

EN 50342-4, *Lead-acid starter batteries - Part 4: Dimensions of batteries for heavy vehicles*

EN ISO 527-1, *Plastics - Determination of tensile properties - Part 1: General principles (ISO 527-1)*

EN ISO 527-2, *Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics (ISO 527-2)*

IEC 60050-482, *International Electrotechnical Vocabulary – Part 482: Primary and secondary cells and batteries*

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