

Amendments to the inspection requirements for protective helmets for drivers and passengers of motorcycles and mopeds; pedal cyclists and for users of skates, skateboards and roller skates

By the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs

Background:

Protective helmets nowadays are having multi-functions by using hitech, for examples, the Bluetooth video playback and photography functions. As these new functions are battery-powered (secondary lithium battery cells or secondary lithium battery packs), there are safety concerns. The BSMI decided to amend the inspection requirements for certain protective helmets currently subject to legal inspection to ensure their safety with multi-functions. These amendments apply to protective helmets for (1) drivers and passengers of motorcycles and mopeds, (2) pedal cyclists and (3) users of skates, skateboards and roller skates. In addition, a new version of the inspection standard is adopted for the second and third categories of protective helmets. The conformity assessment procedure remains the same: Registration of Product Certification (RPC) or Batch Inspection.

Proposed date of implementation: 1 June 2022

Products (HS/CCCN codes) covered and their applicable inspection standards:

Description of Goods	Reference C.C.C. Code (the first 6 digits are the same as HS Code)	Inspection Standards
Protective helmets for drivers and passengers of motorcycles and mopeds	6506.10.90.90.7-A	CNS 2396 : 2007
Protective helmets for pedal cyclists	6506.10.90.90.7-B	CNS 13371 : 2019
Protective helmets for users of skates, skateboards and roller skates	6506.10.90.90.7-H	

Remarks:

The inspection standards can be accessed at the CNS online service website: www.cnsonline.com.tw. You can preview the content of these standards for free. If you need to download and print the standards, please contact our Information Center.

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Related requirements:

- 1.The listed products that are composite products or have multi-functions shall comply with the respective inspection standards. Where the components are subject to legal inspection, they shall also comply with relevant inspection standards.
- 2.Where the listed products contain a secondary lithium battery, a secondary lithium battery pack, battery management system, or the components/accessories of the listed products contain a secondary lithium battery, a secondary lithium battery pack or battery management system, they are categorized as multi-functional and shall comply with the following inspection requirements:
 - (1)The position of a secondary lithium battery, a secondary lithium battery pack or battery management system shall not be within the testing area specified in the respective inspection standard. (“shock absorption test” and “penetration resistance test” of CNS 2396 ; “shock absorption test” of CNS 13371)

(2)Labeling: risk level 1 and risk statement shall be labeled on the body of the product and user manual in accordance with Sections G.5.1 and G.5.2 , Appendix G of CNS 62133-2 : 2018 (labeling not required on the body of a secondary lithium battery or a secondary lithium battery pack).

(3)Method of test in terms of the shock absorption test and penetration resistance test under the respective inspection standard CNS 2396 (“shock absorption test” and “penetration resistance test”) and CNS 13371 (“shock absorption test”): a secondary lithium battery or a secondary lithium battery pack shall be charged to full capacity and turned off before pre-treatment of the product. Then, turn on the pre-treated product and carry out the tests (shock absorption test and penetration resistance test). No fire, explosion or leakage of the lithium battery shall be observed throughout the test.

(4)In addition to Point 1, applications for Batch Inspection or Registration of Product Certification shall be accompanied by:

(i)A test report issued by a third-party laboratory, performed based on Mode 2 (tested with product) of Section G3.2 (penetration of a secondary lithium battery or a secondary lithium battery pack by steel noodles), Appendix G of CNS 62133-2 : 2018. The test results and the temperature sensor device of the product shall comply with risk level 1 of Section G4.2. The BSMI may check the test report to confirm whether it meets the requirements where necessary. The constituent materials, internal structure diagram, corresponding position of the puncture point of the secondary lithium battery pack.

(ii)A diagram showing the position of a secondary lithium battery, a secondary lithium battery pack or battery management system.

3.Please refer to “Personal Protective Equipment Commodity Inspection Operation Directions” for other relevant requirements.