


<div></div> <div>Green Mark</div>	<div>Electric Motorcycles</div>	No. 21
		Category No. C-06
<div>1. Scope</div> <div>This standard applies to electric motorcycles (“products”) which are defined by the CNS 15819 and the Road Traffic Safety Regulations.</div> <div>2. Product characteristics</div> <div>2.1 The relevant performance and safety requirements of the product’s body assembly, charging system and lithium battery pack shall meet the performance and safety testing specifications for electric motorcycles as stipulated by the Ministry of Economic Affairs.</div> <div>2.2 The product or its manufacturing processes shall not use substances stipulated by the Taiwan EPA as toxic substances, and substances controlled by the Montreal Protocol.</div> <div>3. Materials, accessories and components</div> <div>3.1 The products shall use secondary lithium batteries as the energy source and shall comply with relevant national standards. The mercury, cadmium and lead content of the single battery cell shall be below the regulatory limit.</div> <div>3.2 For the product’s surface coating material, its content of lead, cadmium, hexavalent chromium, mercury, arsenic, antimony, triphenyltin (TPT) and tributyltin (TBT) shall be below the regulatory limits.</div> <div>3.3 The product’s plastic housing components shall not use halogenated plastics. The product shall also meet the requirements of ISO 11469, in labeling all major plastic components weighing more than 100 g in prominent areas to indicate the composition code.</div> <div>4. Test methods and regulatory limits</div> <div>The regulated substances and regulatory limits for this standard are listed below. The applicable test methods shall be the national, international or specific industry standard methods, and the test reports shall be issued by accredited professional testing organizations.</div>		
<div>Date of Promulgation:</div> <div>December 20, 1994</div>	<div>Ministry of Environment</div>	<div>Date of Latest Revision:</div> <div>January 20, 2021</div>

Applicable Part	Regulated Substance	Regulatory Limit	Referenced Test Method
Battery cell	mercury	< 0.25 mg/kg	NIEA R315
Battery cell	cadmium	< 5 mg/kg	NIEA R315
Battery cell	lead	< 15 mg/kg	NIEA R315
Coating material	cadmium	< 2 mg/kg	CNS 15050 US EPA 3050 US EPA 3051 US EPA 3052 NIEA M353 NIEA M301
Coating material	lead	< 2 mg/kg	CNS 15050 US EPA 3050 US EPA 3051 US EPA 3052 NIEA M353 NIEA M301
Coating material	hexavalent chromium	< 3 mg/kg*	CNS 15050 US EPA 3060 US EPA 7196 NIEA T303
Coating material	mercury	< 2 mg/kg*	CNS 15050 US EPA 7471 US EPA 7473 US EPA 3052 NIEA T303
Coating material	antimony	< 5 mg/kg	NIEA M353 US EPA 3052
Coating material	arsenic	< 3 mg/kg	NIEA M353 US EPA 3052 IEC 62321-5
Coating material	triphenyltin	< 2 mg/kg	NIEA T504 CNS 13105
Coating material	tributyltin	< 2 mg/kg	NIEA T504 CNS 13105

\*: The test reports shall provide evidence that the employed test methods have detection limits of less than 1/3 of the regulatory limits.

## 5. Labeling

- 5.1 The name, address and consumer hotline of the Green Mark user shall be clearly printed on the product's owner manual.
- 5.2 The product's required maintenance items, frequency of maintenance, and locations of maintenance stations that can provide such services shall be clearly stated in the owner manual.
- 5.3 The product or packaging shall bear a label reading "Low Pollution" and "Energy Saving".

**6. Other requirements**

- 6.1 The identification of product or product series during the Green Mark application shall be based on the requirements of the *Measures for the Administration of Safety Review for Motor Vehicle Types* stipulated by the Ministry of Transportation and Communications, and contents of the Motor Vehicle's Type Safety certificate. Products in the same product model may be considered the same series products, if they have the same motor types.
- 6.2 The applicant shall provide the following information:
  - (1) Documents on standard operating procedures for product's design and manufacturing to show that recycling and reuse of product components have been taken into consideration. If the applicant is only a manufacturer, the standard operating procedure documentation of the product designer shall be provided.
  - (2) List of the product's parts and components which can be recycled and reused, including the methods for their recycling and reuse.
  - (3) Instructions on product disassembly and description of facility and equipment required to carry out disassembly operation.

**Revision History:**

First revision: March 30, 1998

Second revision: January 20, 2021