



MALAYSIAN STANDARD

MS 1-1:2023

Protective helmets and visors for vehicle users - Specification - Part 1: Protective helmets (Fourth revision)

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Committee representation

The National Standards Committee on Transport (NSC 12) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Agensi Pengangkutan Awam Darat
Department of Environment
Department of Standards Malaysia (Secretariat)
Jabatan Laut Malaysia
Jabatan Pengangkutan Jalan Malaysia
Malaysia Automotive Component Parts Manufacturers Association
Malaysia Automotive, Robotics and IoT Institute
Malaysian Automotive Association
Malaysian Institute of Road Safety Research
Malaysian Investment Development Authority
Ministry of Domestic Trade and Cost of Living
Ministry of Investment, Trade and Industry
Ministry of Transport
Motorcycle and Scooter Assemblers and Distributors Association of Malaysia
Perodua Manufacturing Sdn Bhd
Perusahaan Otomobil Nasional Sdn Bhd
Pertubuhan Keselamatan Sosial
Polis Diraja Malaysia
Puspakom Sdn Bhd
SIRIM QAS International Sdn Bhd
The Chartered Institute of Logistics and Transport
Universiti Putra Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Motorcycles and Mopeds (NSC 12/TC 8) which supervised the development of this Malaysian Standard consists of representatives from the following organisations:

Department of Environment
Department of Standards Malaysia (Secretariat)
Jabatan Pengangkutan Jalan Malaysia
Malaysia Automotive, Robotics and IoT Institute
Malaysia Motorcycle and Scooter Dealers Association
Malaysian Green Technology and Climate Change Corporation
Malaysian Institute of Road Safety Research
Ministry of Domestic Trade and Cost of Living
Motorcycle and Scooter Assemblers and Distributor Association of Malaysia
Motosikal dan Enjin Nasional Sdn Bhd
Polis Diraja Malaysia
PUSPAKOM Sdn Bhd
SIRIM QAS International Sdn Bhd

Co-opted members:

Armstrong Auto Parts Sdn Bhd
Applus+ IDIADA
RK South Asia Sdn Bhd
TUV Rheinland Malaysia Sdn Bhd

Committee representation (continued)

The Working Group on Protective Helmet for Road Users (NSC 12/TC 8/WG 1) which developed this Malaysian Standard consists of representatives from the following organisations:

Department of Standards Malaysia (Secretariat)
Jabatan Pengangkutan Jalan Malaysia
KHI Manufacturer Sdn Bhd
Malaysian Institute of Road Safety Research
Ministry of Domestic Trade and Cost of Living
Motorcycle and Scooter Assemblers and Distributor Association of Malaysia
Polis Diraja Malaysia
SIRIM QAS International Sdn Bhd (Product Certification and Inspection Department)
SIRIM QAS International Sdn Bhd (Testing Service Department)
Solidgold Helmets Sdn Bhd
Universiti Putra Malaysia

Co-opted member:

Pusat Perubatan Universiti Kebangsaan Malaysia

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Foreword

This Malaysian Standard was developed by the Working Group on Protective Helmet for Road Users (NSC 12/TC 8/WG 1) which was supervised by the Technical Committee on Motorcycles and Mopeds (NSC 12/TC 8) under the authority of the National Standards Committee on Transport (NSC 12).

This fourth revision of MS 1-1 cancels and replaces MS 1-1:2011, *Protective helmets and visors for vehicle users – Specification – Part 1: Protective helmets*.

In the revision of this Malaysian Standard, reference was made to United Nations Regulation No. 22, *Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds*. This standard takes into account the environmental and condition of use in Malaysia.

Major modifications in this revision are as follows:

- a) deletion of low temperature conditioning since Malaysia's average climate rarely experience low temperature down to 0 °C;
- b) inclusion of water immersion conditioning due to characteristic features of the climate in Malaysia which are usually of uniform temperature, high humidity and copious rainfall;
- c) adoption of speed in the drop test instead of height for reason of consistency and repeatability;
- d) deletion of retention test since dynamic retention test is available in this standard; and
- e) points of impact to be made random at all test sites.

MS 1 consists of the following parts, under the general title *Protective helmets and visors for vehicle users - Specification*:

Part 1: Protective helmets

Part 2: Visors

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.