Designation: F1952 - 22

An American National Standard

Standard Specification for Helmets Used for Downhill Mountain Bicycle Racing¹

This standard is issued under the fixed designation F1952; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This specification covers performance requirements for helmets used by downhill mountain bicycle riders. Studies have shown higher risk to the head and face for this sport as compared to recreational street riding; hence, this specification requires greater impact protection and provides performance criteria for chin bars on full-face helmets, but does not require full-face helmets. This specification recognizes the desirability of lightweight construction and ventilation; however, it is a performance specification and is not intended to restrict design.
- 1.2 All testing and requirements of this specification shall be in accordance with Test Methods F1446, except where noted herein.
- 1.3 Partial utilization of this standard is prohibited. Any statement of compliance with this specification must be a certification that the product meets all of the requirements of this specification in its entirety. A product that fails to meet any one of the requirements of this specification is considered to have failed this standard, and should not be sold with any indication that it meets parts of this standard.
- 1.4 Headgear designed to comply with this and other standards may proclaim uses as certified by the manufacturer.
- 1.5 This standard is subject to revision at any time by ASTM. It must be reviewed every five years and if not revised either reapproved or withdrawn. References to the standard must include the version date. No references to a version that has been replaced or withdrawn shall be placed on any product or its packaging manufactured more than 24 months after the effective revision or withdrawal date. Go to astm.org to verify the latest version of this standard.
- 1.6 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.7 The following safety caveat applies to the chemical, mechanical, or physical, or a combination thereof, test methods

described herein and is meant specifically for those performing the tests (in an effort to provide them with notice to take the appropriate precautions when conducting the tests): This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.8 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

F1446 Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

3. Labels and Warnings

- 3.1 Shall meet the requirements of Test Methods F1446.
- 3.2 Shall have the words "For downhill mountain bicycle racing."

4. Marking the Test Line

4.1 The test line is shown in Fig. 1 and shall be marked in accordance with Test Methods F1446.

5. Conditioning and Number of Samples

- 5.1 Conditioning of the samples to be tested shall be in accordance with the section entitled "Conditioning Environments" in Test Methods F1446.
- 5.2 For helmets with a chin bar, five sample helmets are required for each shell-liner size combination.
- 5.3 For helmets without a chin bar, four sample helmets are required for each shell-liner size combination.

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.53 on Headgear and Helmets.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.