



Standard Specification for Eye Protective Devices for Airsoft Sports¹

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1. Scope

1.1 This specification applies to eye protective devices (EPDs) designed for use by participants in the sport of airsoft with 6-mm airsoft projectiles. These EPDs are designed to minimize or significantly reduce injury to the eye and adnexa as a result of impact and penetration of airsoft projectiles.

1.2 When airsoft guns are used for target practice with a paper or gel target and a backstop sufficient to prevent ricochet, shooters may wear eye protection (shooting glasses) appropriate for use with firearms, ball bullet (BB) guns or air guns that meet ANSI Z87.1. The balance of this specification applies to EPDs designed for use by participants in tactical sports using airsoft guns.

1.3 EPDs meeting the requirements of this specification offer protection to the eyes and adnexa and not necessarily to any other parts of the head.

1.4 *Units*—The values stated in SI units are to be regarded as the standard. No other units of measurement are included in this standard.

1.5 This specification does not limit the wearing of eye-glasses or contact lenses when used in conjunction with the EPD based on the information provided by the manufacturer in section 9.2.21.

1.6 The following information is provided for the laboratory conducting the test for the protection of their personnel: *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards*:²

D1003 Test Method for Haze and Luminous Transmittance of Transparent Plastics

F2679 Specification for 6 mm Projectiles Used with Airsoft Guns

F2748 Specification for Airsoft Guns

2.2 *ANSI Standards*:³

Z80.3 Requirements for Nonprescription Sunglasses and Fashion Eyewear

Z87.1 Practice for Occupational and Educational Eye and Face Protectors

2.3 *CSA Standard*:⁴

Z262.6-02 Specifications for Facially Featured Headforms

2.4 *EN Standard*:⁵

EN 168 Personal Eye Protection—Non-Optical Test Method—Section 17 Headforms

3. Terminology

3.1 *Definitions of Terms Specific to This Standard*:

3.1.1 *adnexa, n*—adjunct parts of the eye, including the orbit, orbital contents, eyelids, and the lacrimal apparatus.

3.1.2 *airsoft field, n*—area where participants actively target and shoot each other with airsoft projectiles using airsoft guns.

3.1.3 *airsoft gun, n*—device specifically designed to expel airsoft projectiles as the result of the release of energy by compressed air, compressed carbon dioxide (CO₂), mechanical springs, battery, or a combination thereof as defined in Specification F2748.

3.1.4 *airsoft projectile, n*—6 mm projectiles used with an airsoft gun which is defined in Specification F2679.

3.1.5 *astigmatism, n*—condition in a lens that creates two axially separated line foci of each object point, the lines being

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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.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from Canadian Standards Association (CSA), 5060 Spectrum Way, Mississauga, ON L4W 5N6, Canada, <http://www.csa.ca>.

⁵ Available from European Committee for Standardization (CEN), Avenue Marnix 17, B-1000, Brussels, Belgium, <http://www.cen.eu>.