



Standard Specification for 6 mm Projectiles Used with Airsoft Guns¹

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1. Scope

1.1 This specification establishes requirements and characteristics of airsoft gun projectiles which help define whether an airsoft gun is suitable for use in the sport commonly called airsoft, air soft, or soft air. Furthermore, the specification establishes minimum warning and package labeling to help ensure that the low energy airgun projectiles are used in a safe manner and that the risk of injury is reduced.

1.2 *Limitations*—This specification does not cover the following categories of projectiles: Projectiles covered by Consumer Safety Specification F590 (non-powder guns projectiles), Specification F1979 (paintballs), Specification F2573, and Specification F2574; liquid filled or metallic projectiles, toy products, and non-recreational projectiles such as those used by law enforcement, scientific, or military agencies.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *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.*

1.5 *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

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 F08.27 on Airsoft.

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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.

- F590 Consumer Safety Specification for Non-Powder Gun Projectiles and Propellants
- F1979 Specification for Projectiles Used in the Sport of Paintball
- F2573 Specification for Low Velocity Resilient Material Projectile
- F2574 Specification for Low Velocity Projectile Marker
- F2654 Specification for Airsoft Gun Warnings
- F2748 Specification for Airsoft Guns

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *airsoft gun*—commonly referred to as airsoft gun, air soft gun, or soft air gun, or any combination thereof, or a low energy air gun (LEAG), refers to a device specifically designed to expel a projectile as described in this standard, by the release of energy by compressed air, compressed gas, mechanical springs, battery, or a combination thereof, that complies with Specification F2654 and Specification F2748.

3.1.2 *airsoft gun projectile*—is spherical, of 6 mm (.24 cal) diameter, non-metallic and non-liquid filled projectile to be used in an airsoft gun.

3.1.2.1 *Discussion*—These are also referred to as airsoft BB's.

4. General Requirements

4.1 *Size (Diameter of Airsoft Gun Projectile)*—The diameter of the airsoft gun projectile labeled 6 mm shall measure between 5.8 mm (0.228 in.) and 6.0 mm (0.236 in.), as measured at two perpendicular axes.

4.2 *Weight*—The airsoft gun projectiles shall weigh within +5 % and –10 % of the indicated weight. Example the projectile labeled 0.12 g shall weigh between 0.108 and 0.126 g.

5. Product Packaging

5.1 *General Instructions*—The size of the print for warnings, instructions and manufacturer's information shall be of a type size of at least 8 points. The letters in the word "WARNING" shall be at least 50 % larger than the letters in the other words in the cautionary statement.

5.2 *Warning Information*—A cautionary statement on packaging of all airsoft gun projectiles shall convey the following information or its equivalent at a minimum:

- 5.2.1 A signal word “WARNING”,
- 5.2.2 A warning that airsoft guns are not toys,
- 5.2.3 A warning that misuse may cause serious injury, especially to the eye, and
- 5.2.4 A warning that eye protection designed for airsoft guns must be worn by the user and any person within range.
- 5.2.5 The following cautionary statement may be used:
⚠Warning—Airsoft guns are not toys. Misuse may cause serious injury, especially to the eye. Eye protection designed for airsoft must be worn by the user and any person within range.

5.3 *Additional information*—The following information or its equivalent shall be provided on the packaging of airsoft gun projectiles:

- 5.3.1 The name and address of the manufacturer or distributor of airsoft gun projectiles.
- 5.3.2 The caliber of the airsoft gun projectiles expressed in millimetres and the weight of the airsoft gun projectiles expressed in grams.
- 5.3.3 Instructions to the effect that the airsoft gun projectiles are intended only for use in airsoft guns, and that users should follow all safety rules.

6. Keywords

- 6.1 air soft; airsoft; airsoft BB; airsoft projectile; low energy air gun; soft air

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