



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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- [F590 Consumer Safety Specification for Non-Powder Gun Projectiles and Propellants](#)
- [F1979 Specification for Paintballs Used in the Sport of Paintball](#)
- [F2573 Specification for Low Velocity Resilient Material Projectile](#)

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.

- [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 (0.23 in.) and 6 mm (0.24 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