



Standard Specification for 6 mm Projectiles Used with Low Energy Air Guns¹

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1. Scope

1.1 This specification establishes requirements and characteristics of low energy airgun projectiles which help define whether a low energy airgun projectile 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 Low Energy Air Gun (LEAG) Warnings
F2748 Specification for Low Energy Air Guns (Less Than 1 Joule)

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

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

3.1.2 *low energy air gun projectile, (LEAG projectile)*—is spherical, of 6 mm (.24 cal) diameter, non-metallic and non-liquid filled projectile to be used in a low energy air gun.

4. General Requirements

4.1 *Size (Diameter of LEAG Projectile)*—The diameter of the LEAG 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 LEAG 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 LEAG 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 low energy air 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 low energy air 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 LEAG projectiles:

5.3.1 The name and address of the manufacturer or distributor of LEAG projectiles.

5.3.2 The caliber of the LEAG projectiles expressed in millimeters and the weight of the LEAG projectiles expressed in g.

5.3.3 Instructions to the effect that the LEAG projectiles are intended only for use in low energy air guns, and that users should follow all safety rules.

6. Keywords

6.1 air soft; airsoft; LEAG projectile; low energy air gun; soft air

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