



Standard Specification for Low Velocity Resilient Material Projectile¹

This standard is issued under the fixed designation F2573; 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 critical characteristics of low velocity resilient material projectiles (herein referred to as LVRM projectiles) made of a resilient material, and shall have a diameter no smaller than 20 mm (0.7874 in.) and no greater than 30 mm (1.18 in.), with a hardness no greater than 75 Shore 00 in accordance with Specification [D2240](#). This specification helps define whether a projectile is suitable for use with a low velocity projectile marker (herein referred to as LVP marker as defined in Specification [F2574](#)). The weight of the LVRM projectile is not to exceed 4.0 g. Furthermore, this specification establishes minimum warning and package labeling to help ensure that the LVRM projectiles are used in a safe manner and that the risk of injury is reduced.

1.2 A LVRM projectile is not a paintball as defined in Section 2.1.2 of Specification [F1979](#).

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 [F08.24](#) on Paintball and Equipment.

Current edition approved Sept. 1, 2022. Published October 2022. Originally approved in 2006. Last previous edition approved in 2018 as F2573 – 06 (2018). DOI: 10.1520/F2573-06R22.

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.

[D2240](#) Test Method for Rubber Property—Durometer Hardness

[F963](#) Consumer Safety Specification for Toy Safety

[F1776](#) Specification for Eye Protective Devices for Paintball Sports

[F1979](#) Specification for Projectiles Used in the Sport of Paintball

[F2574](#) Specification for Low Velocity Projectile Marker

2.2 *Federal Standards*:³

[16 CFR 1500](#) Hazardous Substance Act Regulations

2.3 *ANSI Standard*:⁴

[Z 535.1](#) Safety Color Code

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *low velocity projectile marker, n*—device specifically designed to discharge LVRM projectiles. The device is sometimes referred to as a low velocity projectile gun as defined in Specification [F2574](#).

3.1.2 *low velocity resilient material ball, n*—any spherical, ovoid, or ellipsoidal object. The term “ball” also includes any multisided object formed by connecting planes into a generally spherical ovoid, or ellipsoidal shape that is designated or intended to be used as a ball. A “ball” can be a LVRM projectile.

3.1.3 *low velocity resilient material projectile, n*—object propelled by means of a discharge mechanism capable of storing and releasing energy under the control of the operator comprised of a resilient material, and have a diameter no smaller than 20 mm (0.7874 in.) and no greater than 30 mm (1.18 in.). The hardness of the LVRM projectile is to be no greater than 75 Shore 00 in accordance with Specification [D2240](#). The weight of the LVRM projectile is not to exceed 4.0 g.

³ Available from U.S. Consumer Product Safety Commission (CPSC), 4330 East-West Hwy., Bethesda, MD 20814, website: www.cpsc.gov; or U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, website: www.gpo.gov.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, website: www.ansi.org. Hard copies are available from Global Engineering Documents, 15 Inverness Way, East Englewood, CO 80112-5704, website: www.gpo.gov.