



Standard Specification for Zinc-5 % Aluminum-Mischmetal Alloy-Coated Steel Chain- Link Fence Fabric¹

This standard is issued under the fixed designation F 1345; 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 zinc-5 % aluminum-mischmetal (Zn-5Al-MM) alloy-coated steel chain-link fence fabric, Zn-5Al-MM alloy-coated, before weaving.

1.2 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 ASTM Standards:

A 90 Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles²

A 491 Specification for Aluminum-Coated Steel Chain-Link Fence Fabric²

A 700 Practices for Packaging, Marking and Loading Methods for Steel Products for Domestic Shipment³

A 817 Specification for Metallic-Coated Steel Wire for Chain Link Fence Fabric²

2.2 Federal Standard:

Fed. Std. No. 123 Marking for Shipment, Civil Agencies⁴

2.3 Military Standards:

MIL-STD-129 Marking for Shipment and Storage⁴

MIL-STD-163 Steel Mill Products, Preparation for Shipment and Storage⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *chain link fence fabric*—a fencing material made from steel wire helically wound and interwoven in such a manner as to provide a continuous mesh without knots or ties except in the form of knuckling, or of twisting the ends of the wires to form the selvage of the fabric.

3.1.2 *diamond count*—the number of diamond openings from one edge of the fabric to the other. The diamond count of a given fabric shall begin at the first completed diamond at one edge and continue to the unfinished half or full opening at the other edge.

¹ This specification is under the jurisdiction of ASTM Committee F-14 on Fences and is the direct responsibility of Subcommittee F14.40 on Chain Link Fence and Wire Accessories.

Current edition approved July 10, 1996. Published September 1996. Originally published as F 1345 - 91. Last previous edition F 1345 - 91.

² Annual Book of ASTM Standards, Vol 01.06.

³ Annual Book of ASTM Standards, Vol 01.05.

⁴ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

3.1.3 *knuckling*—a term used to describe the type of selvage obtained by interlocking adjacent pairs of wire ends and then bending the wire ends back into a loop. The loop shall be closed or nearly closed to a measurement less than the diameter of the wire.

3.1.4 *twisting*—a term used to describe the type of selvage obtained by twisting adjacent pairs of wire ends together in a close helix of 1½ machine turns, which is equivalent to three full twists, and cutting the wire ends at an angle. The wire ends beyond the twist shall be at least ¼ in. (6.4 mm) long. This type of selvage is not used on fabric with a mesh size of less than 2 in. (50.8 mm).

4. Ordering Information

4.1 Orders for chain-link fence fabric purchased to this specification shall include the following information:

4.1.1 Quantity (Section 13),

4.1.2 Size of mesh (Section 7),

4.1.3 Size of wire (Section 8),

4.1.4 Height of fabric (Section 9),

4.1.5 Diamond count, if specified (Section 6),

4.1.6 Type of selvage (Section 10),

4.1.7 Certification if required (Section 16),

4.1.8 Class of Coating (Section 11), and

4.1.9 ASTM designation and year of issue.

4.2 All rolls of fencing accepted by the purchaser shall be billed on the basis of the original footage of the rolls before sampling, unless changed by contractual arrangement.

NOTE 1—A typical ordering description is as follows: 25 rolls, 50 ft each, chain-link fence fabric, Zn-5Al-MM alloy-coated, 2 in. mesh, 0.148 in. wire, 60 in. high, knuckled both selvages, class 2 coating to Specification F 1345.

5. Materials

5.1 The wire from which the fabric is woven shall conform to all requirements of Specification A 817 for Type III coating, in the class of coating specified (Class 1 or Class 2).

6. Weave

6.1 The wire shall be woven throughout in the form of approximately uniform square mesh, having parallel sides and horizontal and vertical diagonals of approximately uniform dimensions. The top and bottom of the fabric shall be knuckled or twisted as specified in Section 10.