



Standard Specification for Poly(Vinyl Chloride) (PVC)-Coated Steel Barbed Wire Used With Chain-Link Fence¹

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1. Scope

1.1 This specification covers poly(vinyl chloride)-coated steel barbed wire consisting of two poly(vinyl chloride)-coated strands, with four-point barbs of zinc-coated steel or aluminum alloy wire. Poly(vinyl chloride) hereinafter will be designated PVC.

1.2 Barbed wire strand wire, produced from three classes of wire coatings, is covered as follows:

1.2.1 *Class 1*, consisting of PVC coating extruded over zinc-coated or aluminum-coated or zinc-5 % aluminum-mischmetal alloy-coated steel wire;

1.2.2 *Class 2a*, consisting of PVC coating extruded and adhered to zinc-coated or aluminum-coated or zinc-5 % aluminum-mischmetal alloy-coated steel wire; and

1.2.3 *Class 2b*, consisting of PVC coating fused and adhered to zinc-coated or aluminum-coated or zinc-5 % aluminum-mischmetal alloy-coated steel wire.

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

2. Referenced Documents

2.1 ASTM Standards:

A 90/A90M Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings²

A 370 Test Methods and Definitions for Mechanical Testing of Steel Products³

A 428 Test Method for Weight of Coating on Aluminum-Coated Iron or Steel Articles²

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment⁴

D 1499 Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics⁵

F 552 Terminology Relating to Chain Link Fencing²

F 668 Specification for Poly(Vinyl Chloride) (PVC)-Coated Steel Chain-Link Fence Fabric²

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.

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² Annual Book of ASTM Standards, Vol 01.06.

³ Annual Book of ASTM Standards, Vol 01.03.

⁴ Annual Book of ASTM Standards, Vol 01.05.

⁵ Annual Book of ASTM Standards, Vol 08.01.

F 934 Specification for Standard Colors for Polymer Coated Chain Link Fence Materials²

G 23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials⁶

G 26 Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials⁶

2.2 *Federal Standard:*⁷

Fed. Std. No. 123 Marking for Shipments (Civil Agencies)

2.3 *Military Standards:*⁷

MIL-STD-129 Marking for Shipment and Storage

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

3. Terminology

3.1 Definitions—For definitions of terms such as fabric (chain-link fence) and PVC, see Terminology F 552.

4. Classification

4.1 PVC-coated steel barbed wire is supplied in a choice of two types as follows:

4.1.1 *Type I (Standard)*, with barbs spaced on 5-in. (127-mm) centers; and

4.1.2 *Type II (High Security)*, with barbs spaced on 3-in. (76-mm) centers.

5. Ordering Information

5.1 Orders for barbed wire purchased in accordance with this specification shall include the following information:

5.1.1 Quantity (expressed in number of spools);

5.1.2 Length of spools (1320 or 1000 ft (402 or 305 m); see 9.4);

5.1.3 Class of PVC coating to be applied to metallic-coated steel strand wire;

5.1.4 Color of coating;

5.1.5 Type of barbs (galvanized steel or aluminum alloy; see 6.3);

5.1.6 Type of barbed wire (Type I or II; see 4.1.1 and 4.1.2);

5.1.7 Selection of type of metallic coating on the steel strand

⁶ Annual Book of ASTM Standards, Vol 06.01.

⁷ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.