



Standard Specification for Poly(Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Barbed Wire Used With Chain-Link Fence¹

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1. Scope

1.1 This specification covers poly(vinyl chloride) and other conforming organic polymer-coated steel barbed wire consisting of two polymer-coated strands, with four-point barbs of zinc-coated steel or aluminum alloy wire. Poly(vinyl chloride) and other organic polymer coatings hereinafter will be designated as polymer coating.

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

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

1.2.2 *Class 2a*, consisting of a polymer 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 a polymer 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 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), PVC, and polymer coating, see Terminology F 552.

4. Classification

4.1 Polymer-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);

¹ This specification is under the jurisdiction of ASTM Committee F14 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.

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.