



Standard Specification for Vinyl (PVC) Coated Steel Wire and Welded Wire Fabric for Reinforcement¹

This standard is issued under the fixed designation A 933/A933M; 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 plain and deformed steel wire and plain and deformed steel welded wire fabric with protective vinyl (PVC, polyvinyl chloride, or polyvinyl chloride powder compound) coating. Class A is intended for use as reinforcement in concrete and Class B as reinforcement in earth.

1.2 Other thermoplastic organic coatings may be used provided they meet the requirements of this specification.

NOTE 1—The coating applicator is identified throughout this specification as the manufacturer.

1.3 Requirements for coatings are contained in Annex A1.

1.4 This specification is applicable for orders in either inch-pound units (as Specification A 933) or in SI units [as Specification A 933M].

1.5 The values stated in either inch-pound or SI units are to be regarded as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with this specification.

2. Referenced Documents

2.1 ASTM Standards:

- A 82 Specification for Steel Wire, Plain, for Concrete Reinforcement²
- A 185 Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement²
- A 496 Specification for Steel Wire, Deformed, for Concrete Reinforcement²
- A 497 Specification for Welded Deformed Steel Wire Fabric, for Concrete Reinforcement²
- D 2240 Test Method for Rubber Property—Durometer Hardness³
- D 4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser⁴

¹ This specification is under the jurisdiction of ASTM Committee A-1 on Steel, Stainless Steel, and Related Alloys and is under the direct responsibility of Subcommittee A01.05 on Steel Reinforcement.

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² *Annual Book of ASTM Standards*, Vol 01.04.

³ *Annual Book of ASTM Standards*, Vol 09.01.

⁴ *Annual Book of ASTM Standards*, Vol 06.01.

G 8 Test Method for Cathodic Disbonding of Pipeline Coatings⁵

G 12 Test Method for Nondestructive Measurement of Film Thickness of Pipeline Coatings on Steel⁵

G 14 Test Method for Impact Resistance of Pipeline Coatings (Falling Weight Test)⁵

G 20 Test Method for Chemical Resistance of Pipeline Coatings⁵

2.2 *National Association of Corrosion Engineers Standards:*⁶

RP-287-87 Field Measurement of Surface Profile of Abrasive Blast Cleaned Steel Surface Using a Replica Tape

TM-01-70 Visual Standard for Surfaces of New Steel Air Blast Cleaned with Sand Abrasive (NACE No. 2)

TM-01-75 Visual Standard for Surfaces of New Steel Centrifugally Blast Cleaned with Steel Shot or Steel Grit (NACE No. 2)

2.3 *Steel Structures Painting Council Specifications:*⁷

SSPC-SP 10-85 Near-White Blast Cleaning

SSPC-Vis 1-67T Pictorial Surface Preparation Standards for Painting Steel Surfaces

SSPC-Vis 2-82T Standard Methods of Evaluating Degree of Rusting on Painted Steel Surfaces

3. Ordering Information

3.1 *The purchaser should specify:*

3.1.1 Wire or welded wire fabric specification,

3.1.2 Wire size,

3.1.3 Wire spacing and sizes, if welded wire fabric,

3.1.4 Length and width of sheets or rolls,

3.1.5 Quantity, and

3.1.6 Class of coating.

3.2 *The purchaser may specify, if desired:*

3.2.1 Requirements for material samples (4.3),

3.2.2 Requirements for patching material (4.4),

3.2.3 Requirements for visual standards for surface cleaning comparison (5.1),

3.2.4 Specific requirements for test frequency (8.1), and

⁵ *Annual Book of ASTM Standards*, Vol 06.02.

⁶ Available from the National Association of Corrosion Engineers, 1440 South Creek, Houston, TX 77084.

⁷ Available from Steel Structures Painting Council, 4400 Fifth Ave., Pittsburgh, PA 15213.