



Standard Specification for Vinyl-Coated Steel Wire and Welded Wire Reinforcement¹

This standard is issued under the fixed designation A933/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 reinforcement with protective vinyl (polyvinyl chloride, or polyvinyl chloride powder compound) coating. A Class A minimum coating thickness is required for wire and welded wire reinforcement intended for use in concrete and masonry. A Class B minimum coating thickness is required for wire and welded wire reinforcement intended for use in mechanically stabilized earth applications.

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 Requirements for patching materials are contained in [Annex A2](#).

1.5 The text of this specification contains notes or footnotes, or both, that provide explanatory material. Such notes and footnotes, excluding those in tables or figures, do not contain any mandatory requirements.

1.6 This specification is applicable for orders in either inch-pound units (as Specification A933) or in SI units [as Specification A933M].

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

¹ This specification is under the jurisdiction of ASTM Committee A01 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. Referenced Documents

2.1 ASTM Standards:²

A775/A775M Specification for Epoxy-Coated Steel Reinforcing Bars

A884/A884M Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement

A1064/A1064M Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete

B117 Practice for Operating Salt Spray (Fog) Apparatus

D374 Test Methods for Thickness of Solid Electrical Insulation (Withdrawn 2013)³

D2240 Test Method for Rubber Property—Durometer Hardness

D2967 Test Method for Corner Coverage of Powder Coatings

D4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

G8 Test Methods for Cathodic Disbonding of Pipeline Coatings

G12 Test Method for Nondestructive Measurement of Film Thickness of Pipeline Coatings on Steel (Withdrawn 2013)³

G14 Test Method for Impact Resistance of Pipeline Coatings (Falling Weight Test)

G20 Test Method for Chemical Resistance of Pipeline Coatings

2.2 National Association of Corrosion Engineers Standards:⁴

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)

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.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from National Association of Corrosion Engineers (NACE), 1440 South Creek Dr., Houston, TX 77084-4906, <http://www.nace.org>.

*A Summary of Changes section appears at the end of this standard