

Designation: A 492 – 95 (Reapproved 2000)

# Standard Specification for Stainless Steel Rope Wire<sup>1</sup>

This standard is issued under the fixed designation A 492; 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  $(\epsilon)$  indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

## 1. Scope

- 1.1 This specification covers the more commonly used types of round stainless steel wire intended especially for stranding into wire rope.
- 1.2 The values stated in inch-pound units are to be regarded as the standard.

#### 2. Referenced Documents

- 2.1 ASTM Standards:
- A 555/A555M Specification for General Requirements for Stainless Steel Wire and Wire Rods<sup>2</sup>
- A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products<sup>2</sup>

# 3. Ordering Information

- 3.1 It is the responsibility of the purchaser to specify all requirements that are necessary for material ordered under this specification. Such requirements may include, but are not limited to the following:
  - 3.1.1 Quantity (weight),
  - 3.1.2 Name of material (stainless steel),
  - 3.1.3 Condition (see Section 5), og/standards/sist/a00bb11f
  - 3.1.4 Finish (see Section 7),
  - 3.1.5 Cross section (round),
  - 3.1.6 Form (wire).
  - 3.1.7 Applicable dimensions (diameter),
  - 3.1.8 Type designation (Table 1),
  - 3.1.9 ASTM designation and date of issue, and
  - 3.1.10 Special requirements.
- 3.2 If possible, the intended end use of the item should be given on the purchase order, especially when the item is ordered for a specific end use or uses.

Note 1—A typical ordering description is as follows: 1000 lb stainless steel, cold-drawn, bright-finish, wire, 0.009-in. diameter, spools. Type 304, ASTM Specification A 492 dated, End Use.

#### 4. Chemical Composition

- 4.1 The steel shall conform to the requirements as to chemical composition specified in Table 1.
- 4.2 Methods and practices relating to chemical analysis required by this specification shall be in accordance with Test Methods, Practices, and Terminology A 751.

#### 5. Condition

5.1 The wire is cold drawn and furnished in the finish (see Section 7) specified on the purchase order.

#### 6. Mechanical Requirements

6.1 The material shall conform to the requirements as to mechanical properties specified in Table 2.

#### 7. Finish

7.1 The types of finish procurable are pickled finish and bright finish (available only in sizes that can be diamond drawn which are generally 0.045 in. (1.14 mm) and smaller).

## 8. General Requirements for Delivery 492-952000

8.1 In addition to the requirements of this specification, all requirements of the current edition of Specification A 555/ A 555M, shall apply. Failure to comply with the general requirements of Specification A 555/A 555M constitutes nonconformance with this specification.

# 9. Packaging and Package Marking

- 9.1 Each coil or spool shall be one continuous length of wire. Each coil shall be firmly tied and each spool shall be tightly wound. Unless otherwise specified coils shall be placed in drums or paper wrapped and spools shall be boxed in such a manner as to assure safe delivery to their designation when properly transported by any common carrier.
- 9.2 Each coil or spool of wire shall be properly tagged showing heat number, grade, condition, ASTM specification number, and size.

#### 10. Keywords

10.1 austenitic stainless steel; stainless steel rope wire

<sup>&</sup>lt;sup>1</sup> This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys, and is the direct responsibility of Subcommittee A01.17 on Flat Stainless Steel Products.

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<sup>&</sup>lt;sup>2</sup> Annual Book of ASTM Standards, Vol 01.03.