



## Designation: ~~B516 – 03 (Reapproved 2014)~~ B516 – 15

# Standard Specification for Welded Nickel-Chromium-Iron Alloy (UNS N06600, UNS N06601, UNS N06603, UNS N06025, UNS N06045, UNS N06690, and UNS N06045)N06693) Tubes<sup>1</sup>

This standard is issued under the fixed designation B516; 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.

### 1. Scope\*~~Scope~~\*

1.1 This specification covers welded UNS N06600,<sup>2</sup> N06601, N06603, N06025, ~~and N06045~~ UNS N06690, and UNS N06693 alloy boiler, heat exchanger, and condenser tubes for general corrosion resisting and low or high-temperature service.

1.2 This specification covers tubes  $\frac{1}{8}$  to 5 in. (3.18 to 127 mm), inclusive, in outside diameter and 0.015 to 0.500 in. (0.38 to 12.70 mm), inclusive, in wall thickness. Table 2 of Specification **B751** lists the dimensional requirements of these sizes. Tubes having other dimensions may be furnished provided such tubing complies with all other requirements of this specification.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to become familiar with all hazards including those identified in the appropriate Material Safety Data Sheet (MSDS) for this product/material as provided by the manufacturer, to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.*

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>3</sup>

**B751** Specification for General Requirements for Nickel and Nickel Alloy Welded Tube  
**B899** Terminology Relating to Non-ferrous Metals and Alloys

### 3. Terminology

3.1 Terms defined in Terminology **B899** shall apply unless defined otherwise in this standard.

### 4. Ordering Information

4.1 It is the responsibility of the purchaser to specify all requirements that are necessary for the safe and satisfactory performance of material ordered under this specification. Examples of such requirements include, but are not limited to, the following:

- 4.1.1 Quantity (feet or number of lengths),
- 4.1.2 UNS number,
- 4.1.3 Size (outside diameter minimum or average wall thickness),
- 4.1.4 Length (random or specific),
- 4.1.5 Class,
- 4.1.6 ASTM designation,
- 4.1.7 *Product Analysis*—State if required,
- 4.1.8 *Certification*—State if a certification or a report of test results is required, and
- 4.1.9 *Purchaser Inspection*—State which tests or inspections are to be witnessed, if any.

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee **B02** on Nonferrous Metals and Alloys and is the direct responsibility of Subcommittee **B02.07** on Refined Nickel and Cobalt and Their Alloys.

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<sup>2</sup> New designation established in accordance with ASTM E527 and SAE J1086, Practice for Numbering Metals and Alloys (UNS).

<sup>3</sup> 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.

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