



## Designation: **B517–05 (Reapproved 2009) B517 – 05 (Reapproved 2014)**

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

This standard is issued under the fixed designation B517; 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<sup>\*Scope</sup>

1.1 This specification<sup>2</sup> covers welded, cold-worked, and annealed nickel-chromium-iron alloy (UNS ~~N06600~~,<sup>\*N06600</sup>,<sup>3</sup> N06603, N06025, and N06045) pipe for general corrosive service and heat-resisting applications.

1.2 This specification covers outside diameter and nominal wall pipe shown in ANSI B36.19. Pipe having other dimensions may be furnished provided such pipe 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>4</sup>

**B775** Specification for General Requirements for Nickel and Nickel Alloy Welded Pipe

**B899** Terminology Relating to Non-ferrous Metals and Alloys

2.2 *ANSI Standard:*

**B36.19** Stainless Steel Pipe<sup>5</sup>

## 3. Terminology

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

## 4. General Requirement

4.1 Material furnished in accordance with this specification shall conform to the applicable requirements of the current edition of Specification **B775** unless otherwise provided herein.

## 5. Ordering Information

5.1 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:

5.1.1 Alloy name or UNS number.

5.1.2 ASTM designation and year of issue.

5.1.3 Condition (temper).

<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.

Current edition approved ~~Oct. 1, 2009~~ Oct. 1, 2014. Published ~~October 2009~~ October 2014. Originally approved in 1970. Last previous edition approved in ~~2005~~ 2009 as **B517–05**:**B517 – 05** (2009). DOI: ~~10.1520/B0517-05R09~~:10.1520/B0517-05R14.

<sup>2</sup> For ASME Boiler and Pressure Code applications see related Specification SB-517 in Section II of that Code.

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

<sup>3</sup> New designation established in accordance with ASTM E527 and SAE J1086, Practice for Numbering Metals and Alloys (UNS).

<sup>4</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~~ standard's Document Summary page on the ASTM website.

<sup>5</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

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