



Standard Specification for General Requirements for Nickel and Nickel Alloy Welded Tube¹

This standard is issued under the fixed designation B751; 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 contains various requirements that, with the exception of Sections 6 and 7, are mandatory requirements to the following ASTM nickel and nickel alloy, longitudinally welded tubular product specifications:

Title of Specification	ASTM Designation
Welded UNS N08020, N08024, and UNS N08026 Alloy Tubes	B468
Welded UNS N08120, UNS N08800, UNS N08810, UNS N08811 Alloy Tubes	B515
Welded Nickel-Chromium-Iron Alloy (UNS N06600, UNS N06603, UNS N06025, and UNS N06045) Tubes	B516
Welded Nickel and Nickel-Cobalt Alloy Tube	B626
UNS N08904, UNS N08925, and UNS N08926 Welded Tube	B674
UNS N08366 and UNS N08367 Welded Tube	B676
Welded UNS N06625, N06219, and N08825 Alloy Tubes	B704
Ni-Cr-Mo-Co-W-Fe-Si Alloy (UNS N06333) Welded Tube	B726
Welded Nickel (UNS N02200/UNS N02201) and Nickel Copper Alloy (UNS N04400) Tube	B730

1.2 One or more of the test requirements of Section 6 apply only if specifically stated in the product specification or in the purchase order.

1.3 In case of conflict between a requirement of the product specification and a requirement of this general specification, only the requirement of the product specification need be satisfied.

1.4 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.

1.5 *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:²

- B468 Specification for Welded UNS N08020 Alloy Tubes
- B515 Specification for Welded UNS N08120, UNS N08800, UNS N08810, and UNS N08811 Alloy Tubes
- B516 Specification for Welded Nickel-Chromium-Iron Alloy (UNS N06600, UNS N06603, UNS N06025, and UNS N06045) Tubes
- B626 Specification for Welded Nickel and Nickel-Cobalt Alloy Tube
- B674 Specification for UNS N08925, UNS N08354, and UNS N08926 Welded Tube
- B676 Specification for UNS N08367 Welded Tube
- B704 Specification for Welded UNS N06625, UNS N06219 and UNS N08825 Alloy Tubes
- B726 Specification for Nickel-Chromium-Molybdenum-Cobalt-Tungsten-Iron-Silicon Alloy (UNS N06333) Welded Tube
- B730 Specification for Welded Nickel (UNS N02200/UNS N02201) and Nickel Copper Alloy (UNS N04400) Tube
- B880 Specification for General Requirements for Chemical Check Analysis Limits for Nickel, Nickel Alloys and Cobalt Alloys
- E8 Test Methods for Tension Testing of Metallic Materials
- E18 Test Methods for Rockwell Hardness of Metallic Materials
- E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
- E39 Methods for Chemical Analysis of Nickel (Withdrawn 1995)³
- E76 Test Methods for Chemical Analysis of Nickel-Copper Alloys (Withdrawn 2003)³
- E112 Test Methods for Determining Average Grain Size
- E213 Practice for Ultrasonic Testing of Metal Pipe and Tubing
- E273 Practice for Ultrasonic Testing of the Weld Zone of

¹ 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 Feb. 1, 2013. Published February 2013. Originally approved in 1985. Last previous edition approved in 2008 as B751 – 08. DOI: 10.1520/B0751-08R13.

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.