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Standard Specification for Welded UNS N06625, UNS N06219 and UNS N08825 Alloy Tubes¹

This standard is issued under the fixed designation B 704; 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 welded UNS N06625, UNS N06219 and UNS N08825 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. Specification B 751 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 the standard. The values given in parentheses are for information only.

<u>1.4</u> 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

B 751 Specification for General Requirements for Nickel and Nickel Alloy Welded Tube

E 8 Test Methods for Tension Testing of Metallic Materials

3. Ordering Information

3.1 Orders for material to this specification should include the following information:

- 3.1.1 Quantity (feet or number of lengths),
- 3.1.2 UNS number,

3.1.3 Size (outsize diameter, minimum or average wall thickness), 2009)

- 3.1.4 Length (random or specific), and ards/sist/6b957789-0fec-40e9-a594-5f689fc6d613/astm-b704-032009
- 3.1.5 Class, and

3.1.6ASTM designation.

3.1.7

3.1.6 Grade if UNS N06625 is specified. If neither grade of N06625 is specified, grade 1 will be supplied.

3.1.7 ASTM designation.

<u>3.1.8</u> *Product Analysis*—State if required.

3.1.8

<u>3.1.9</u> *Certification*—State if a certification or a report of test results is required.

3.1.9

3.1.10 Purchaser Inspection-State which tests or inspections are to be witnessed, if any.

4. Materials and Manufacture

4.1 Tube shall be made from flat-rolled alloy by an automatic welding process with no addition or filler metal. Subsequent to welding and prior to final annealing, the material shall be cold-worked in either the weld metal only or both weld and base metal.

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.

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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 , Vol 02:04.volume information, refer to the standard's Document Summary page on the ASTM website.