



Designation: B729 – 20

Standard Specification for Seamless Nickel-Iron-Chromium-Molybdenum-Copper Nickel Alloy Pipe and Tube¹

This standard is issued under the fixed designation B729; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope*

1.1 This specification covers UNS N08020, UNS N08026, and UNS N08024 seamless, cold-worked or hot finished pipe and tube intended for general corrosive service.

1.2 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.

1.3 The following safety hazards caveat pertains only to the test methods portion, Section 10, of this specification: *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, health, and environmental practices, and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[B829 Specification for General Requirements for Nickel and Nickel Alloys Seamless Pipe and Tube](#)

[E8 Test Methods for Tension Testing of Metallic Materials \[Metric\] E0008_E0008M](#)

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 Oct. 1, 2020. Published October 2020. Originally approved in 1984. Last previous edition approved in 2019 as B729 – 19. DOI: 10.1520/B0729-20.

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. General Requirement

3.1 Material furnished under this specification shall conform to the applicable requirements of Specification [B829](#) unless otherwise provided herein.

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 Alloy name or UNS number.

4.1.2 ASTM designation and year of issue.

4.1.3 Finish.

4.1.4 *Dimensions:*

4.1.4.1 *Tube*—Specify outside diameter and the average or minimum wall thickness.

4.1.4.2 *Pipe*—Specify standard pipe size and schedule.

4.1.4.3 *Length*, (cut to length or random).

4.1.5 Quantity (feet or number of pieces).

4.1.6 *Hydrostatic Test or Nondestructive Electric Test*—Specify type of test (see [7.2](#)):

4.1.6.1 *Hydrostatic Pressure Requirements*—Specify test pressure if other than required by [10.1](#).

4.1.7 *Ends*—Plain ends cut and deburred will be furnished. If threaded ends or ends beveled for welding are desired, give details.

4.1.8 *Samples for Product (Check) Analysis*—State whether samples for product (check) analysis should be furnished (see [6.2](#)).

4.1.9 *Purchaser Inspection*—If the purchaser wishes to witness tests or inspection of material at the place of manufacture, the purchase order must so state, indicating which tests or inspections are to be witnessed.

5. Materials and Manufacture

5.1 The product of UNS N08020 alloy shall be furnished in the stabilized-annealed condition. The product of UNS N08026 alloy shall be furnished in the solution-annealed condition. The product of UNS N08024 alloy shall be furnished in the annealed condition.

NOTE 1—The recommended annealing temperatures all followed by

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