



Designation: ~~B463-04 (Reapproved 2009)~~ Designation: **B463 – 10**

Standard Specification for ~~UNS N08020, UNS N08026, and UNS N08024 Alloy Plate, Sheet, and Strip~~ **UNS N08020 Alloy Plate, Sheet, and Strip¹**

This standard is issued under the fixed designation B463; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 This specification² ~~covers UNS N08020, UNS N08026,* and UNS N08024 alloy plate, sheet, and strip.~~ covers UNS N08020 alloy plate, sheet, and strip.

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 *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:*³

A262 [Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels](#)

B906 [Specification for General Requirements for Flat-Rolled Nickel and Nickel Alloys Plate, Sheet, and Strip](#)

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 The terms plate, sheet, and strip as used in this specification are defined as follows:

3.1.2 *cold rolled plate, n*—material $\frac{3}{16}$ to $\frac{3}{8}$ in. (4.76 to 9.52 mm), inclusive in thickness and over 10 in. (254.0 mm) in width.

3.1.3 *hot rolled plate, n*—material $\frac{3}{16}$ in. (4.76 mm) and over in thickness and over 10 in. (254.0 mm) in width.

3.1.4 *plate, n*—material $\frac{3}{16}$ in. (4.75 mm) and over in thickness and over 10 in. (254.0 mm) in width.

3.1.5 *sheet, n*—material under $\frac{3}{16}$ in. (4.75 mm) in thickness and 24 in. (609.6 mm) and over in width. Material under $\frac{3}{16}$ in. (4.75 mm) in thickness and in all widths with No. 4 finish. <https://standards.iteh.ai/>

3.1.6 *strip, n*—material under $\frac{3}{16}$ in. (4.75 mm) in thickness and under 24 in. (609.6 mm) in width.

4. General Requirements

4.1 Material furnished under this specification shall conform to the requirements of Specification B906 unless otherwise provided herein. In the case of conflict, the requirements of this specification shall take precedence.

5. Materials and Manufacture

5.1 ~~Heat Treatment—UNS N08020 Alloy shall be furnished in the stabilize-annealed condition. UNS N08026 Alloy shall be furnished in the solution-annealed condition. UNS N08024 Alloy shall be furnished in the annealed condition. —UNS N08020 Alloy shall be furnished in the stabilize-annealed condition.~~

NOTE—The recommended annealing temperatures are 1800 to 1850°F (982 to 1010°C) for UNS N08020, 2050 to 2200°F (1121 to 1204°C) for UNS N08026, and 1925 to 1975°F (1052 to 1079°C) for UNS N08024. ¹—The recommended annealing temperatures are 1800 to 1850°F (982 to 1010°C) for UNS N08020.

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. June 1, 2009; 2010~~. Published ~~October 2009; June 2010~~. Originally approved in 1967. Last previous edition approved in ~~2004~~ 2009 as B463 – 04 (2009). DOI: ~~10.1520/B0463-04R09~~ 10.1520/B0463-10.

² For ASME Boiler and Pressure Vessel Code applications, see related Specification SB – 463 in Section II of that Code.

* New designation established in accordance with ASTM E527 and SAE J1086, Recommended Practice for Numbering Metals and Alloys (UNS).

³ 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.