



Designation: B 625 – 04a

Standard Specification for UNS N08904, UNS N08925, UNS N08031, UNS N08932, UNS N08926, UNS N08354, and UNS R20033 Plate, Sheet, and Strip¹

This standard is issued under the fixed designation B 625; 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 alloys UNS N08904, UNS N08925,* UNS N08031, UNS N08932, UNS N08926, UNS N08354, and UNS R20033 plate, sheet, and strip in the annealed temper.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

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 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 906 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 *plate, n*—material $\frac{3}{16}$ in. (4.76 mm) and over in thickness and over 10 in. (254 mm) in width.

3.1.2 *sheet, n*—material under $\frac{3}{16}$ in. (4.76 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.

3.1.3 *strip, n*—material under $\frac{3}{16}$ in. (4.76 mm) in thickness and under 24 in. (609.6 mm) in width.

4. General Requirements

4.1 Material furnished in accordance with this specification shall conform to the applicable requirements of the current edition of Specification B 906 unless otherwise provided herein.

5. Ordering Information

5.1 Orders for material under this specification shall include the following information:

5.1.1 Quantity (weight or number of pieces),

5.1.2 Alloy name or UNS number,

5.1.3 Form, plate, sheet or strip,

5.1.4 Dimensions,

5.1.5 Type edge required, for strip only (see Specification B 906),

5.1.6 Finish (see Specification B 906)—For sheet with No. 4 finish, specify whether one or both sides are to be polished,

5.1.7 ASTM designation,

5.1.8 Additions to the specification or special requirements,

5.1.9 Certification or test reports—State if certification or test reports are required, and

5.1.10 Source inspection—State if inspection is required.

6. Chemical Composition

6.1 The material shall conform to the composition limits specified in Table 1. One test per lot is required as defined in Specification B 906.

6.2 If a product analysis is made by the purchaser, the material shall conform to the product (check) analysis variations in Specification B 906.

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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* New designation established in accordance with Practice E 527 and SAE J1086, Practice for Numbering Metals and Alloys (UNS).

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.