

Designation: B718 - 22

# Standard Specification for Nickel-Chromium-Molybdenum-Cobalt-Tungsten-Iron-Silicon Alloy Plate<sup>1</sup>

This standard is issued under the fixed designation B718; 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 wrought alloy UNS N06333 plate intended for heat resisting applications and 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 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 Safety Data Sheet (SDS) 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:<sup>2</sup>

B880 Specification for General Requirements for Chemical Check Analysis Limits for Nickel, Nickel Alloys and Cobalt Alloys

E8/E8M Test Methods for Tension Testing of Metallic Materials

E10 Test Method for Brinell Hardness of Metallic MaterialsE18 Test Methods for Rockwell Hardness of Metallic Materials

- E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
- E140 Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness, and Leeb Hardness
- E1473 Test Methods for Chemical Analysis of Nickel, Cobalt and High-Temperature Alloys

#### 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.

# 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 Quantity.
  - 4.1.3 ASTM Designation and year of issue.
  - 4.1.4 Dimensions—Thickness, width, and length.
- 4.1.5 *Certification*—State if certification is required (Section 16).
- 4.1.6 Samples for Product (Check) Analysis—State whether samples shall be furnished.
- 4.1.7 *Purchaser Inspection*—If a purchaser wishes to witness tests or inspections 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 All material shall be furnished in the annealed condition.

#### 6. Chemical Requirements

- 6.1 The material shall conform to the requirements as to chemical composition specified in Table 1.
- 6.2 If a product (check) analysis is performed by the purchaser, the material shall conform to the product (check) analysis variations in Specification B880.

<sup>&</sup>lt;sup>1</sup> 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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<sup>&</sup>lt;sup>2</sup> 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.

**TABLE 1 Chemical Requirements** 

Element	Composition Limits, %
Carbon	0.10 max
Manganese	2.0 max
Phosphorus	0.03
Sulfur	0.03
Silicon	1.5 max
Chromium	24.0-27.0
Nickel	44.0-48.0
Molybdenum	2.5-4.0
Cobalt	2.5-4.0
Tungsten	2.5-4.0
Iron <sup>Ā</sup>	Remainder

<sup>&</sup>lt;sup>A</sup> Element may be determined arithmetically by difference.

#### 7. Mechanical and Other Requirements

7.1 The mechanical properties of the material at room temperature shall conform to those shown in Table 2.

#### 8. Permissible Variations in Dimensions

- 8.1 *Plate*, shall conform to the permissible variations in dimensions specified in Tables 3-8, inclusive.
- 8.2 Plate may be ground to remove surface defects, provided such grinding does not reduce the thickness, width, or length at any point beyond the permissible variations in dimensions.

# 9. Workmanship, Finish, and Appearance

- 9.1 The material shall be uniform in quality and temper, smooth, commercially straight, and free from injurious imperfections.
- 9.2 Plate will be supplied in the hot rolled, annealed, and descaled condition.

#### 10. Sampling dards iteh ai/catalog/standards/sist/5b

- 10.1 Lot Definitions:
- 10.1.1 A lot for chemical analysis shall consist of one heat.
- 10.1.2 A lot for mechanical properties shall consist of material from one heat of the same condition and nominal thickness.
  - 10.2 Test-Material Selection:
- 10.2.1 *Chemical Analysis*—Representative samples from each lot shall be taken during pouring or subsequent processing.
- 10.2.1.1 Product (check) analysis shall be wholly the responsibility of the purchaser.
- 10.2.2 *Mechanical Properties*—Samples of the material to provide test specimens for mechanical properties shall be taken from such locations in each lot as to be representative of that lot.

#### 11. Number of Tests

- 11.1 Chemical Analysis—One test per lot.
- 11.2 Mechanical Properties—One test per lot.

## 12. Specimen Preparation

- 12.1 Tension test specimens shall be taken from material in the final condition (temper). Tests shall be performed transverse to the direction of rolling, where width will permit.
- 12.1.1 All material shall be tested in full cross-section size when possible.
  - 12.2 Tension-test specimens shall be as follows:
- 12.2.1 Full thickness of the material, machine to the form and dimensions shown for the sheet-type specimen in Test Methods E8/E8M for material up through ½ in. (12.7 mm) in thickness.
- 12.2.2 The largest possible round specimen shown in Test Methods E8/E8M for material over ½ in. (12.7 mm).

# 13. Test Methods

- 13.1 Chemical Composition—Test Methods E1473.
- 13.2 Tension Test—Test Methods E8/E8M.
- 13.3 Rockwell Hardness—Test Methods E18.
- 13.4 Brinell Hardness—Test Method E10.
- 13.5 Hardness Conversion—Hardness Conversion Tables E140.
- 13.6 Rounding Method—For purposes of determining compliance with the limits in this specification, an observed value or a calculated value shall be rounded off as indicated below, in accordance with the rounding-off method of Practice E29.

Rounded-Off Unit for Observed or Requirement Calculated Value Chemical composition nearest unit in the last right-hand place of hardness and tolerances (when figures of the specified limit. If two choices are possible, as when the digits dropped expressed in decimals) are exactly a 5 or a 5 followed only by zeros, choose the one ending in an even digit with zero defined as an even digit. Tensile and yield strengths nearest 1000 psi (6.9 MPa) Elongation nearest 1 %

# 14. Inspection

14.1 Inspection of the material by the purchaser shall be as agreed upon by the purchaser and the supplier as part of the purchase contract.

#### 15. Rejection and Rehearing

15.1 Material that fails to conform to the requirements of this specification may be rejected. Rejection should be reported to the producer or supplier promptly and in writing. In case of dissatisfaction with the results of the test, the producer or supplier may make claim for a rehearing.

## **TABLE 2 Mechanical Properties**

Condition	Tanaila Ctranath Min nai (MDa)	Yield Strength, 0.2 % Offset, Min	Hardness <sup>A</sup>	
Condition	Tensile Strength, Min psi (MPa)	psi (MPa)	4D, Min %	Hardness
Annealed	80 000 (551)	35 000 (241)	30	75 to 95 HRB

A Hardness values are informative only and not to be construed as the basis for acceptance.

#### TABLE 3 Permissible Variations in Thickness for Plates<sup>A</sup>

		Width	ı, in. (mm)	
Specified Thickness, in. (mm)	To 84 (2134), incl	Over 84 (2134) to 120 (3048), incl	Over 120 (3048) to 144 (3658), incl	Over 144 (3658)
		Tolerance Over specif	ried Thickness, A,B in. (mm)	
3/16 (4.76) to 3/8 (9.52). excl	0.045 (1.14)	0.050 (1.27)		
3/8 (9.52) to 3/4 (19.05), excl	0.055 (1.40)	0.060 (1.52)	0.075 (1.90)	0.090 (2.29)
3/4 (19.05) to 1 (25.40), excl	0.060 (1.52)	0.065 (1.65)	0.085 (2.16)	0.100 (2.54)
1 (25.40) to 2 (50.80), excl	0.070 (1.78)	0.075 (1.90)	0.095 (2.41)	0.115 (2.92)
2 (50.80) to 3 (76.20), excl	0.125 (3.18)	0.150 (3.81)	0.175 (4.44)	0.200 (5.08)
3 (76.20) to 4 (101.6), excl	0.175 (4.44)	0.210 (5.33)	0.245 (6.22)	0.280 (7.11)

<sup>&</sup>lt;sup>A</sup> Thickness is measured along the longitudinal edges of the plate at least % in. (9.52 mm), but not more than 3 in. (76.20 mm), from the edge.

#### 16. Certification

16.1 When specified in the purchase order or contract, a producer's or supplier's certification shall be furnished to the purchaser that the material was manufactured, sampled, tested, and inspected in accordance with this specification and has been found to meet the requirements. When specified in the purchase order or contract, a report of the test results shall be furnished.

17.2 Each piece (or bundle, where applicable) shall be marked with the grade of the material or UNS number and heat number.

# 18. Keywords

18.1 plate; UNS N06333

# 17. Packaging and Marking

17.1 Material shall be bundled or boxed in such a manner as to assure undamaged delivery to its destination when properly transported by a common carrier.

# **Document Preview**

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<sup>&</sup>lt;sup>B</sup> For circles, the over thickness tolerances in this table apply to the diameter of the circle corresponding to the width ranges shown. For plates of irregular shape, the over thickness tolerances apply to the greatest width corresponding to the width ranges shown. For plates up to 10 in. (254.0 mm), incl, in thickness, the tolerance under the specified thickness is 0.010 in. (0.25 mm).

# TABLE 4 Width and Length Tolerances for Plates $^{A,B}$

		Tolerance Over Specified Width and Length fo			or Given Width, L	Length, and Thickness, in.	
Width, in.	Length, in.	Unde	er ⅓ in.	3⁄8 to 1⁄2 in., inc	cl, in Thickness	Over ½ in.	in Thickness
		Width	Length	Width	Length	Width	Length
48 and under	144 and under	1/8	3/16	3/16	1/4	5/16	3/8
Over 48 to 60, incl		3/16	1/4	1/4	5/16	3/8	7/16
Over 60 to 84, incl		1/4	5/16	5/16	3/8	7/16	1/2
Over 84 to 108, incl		5/16	3/8	3/8	7/16	1/2	9/16
Over 108		3/8	7/16	7/16	1/2	5/8	11/16
48 and under	over 144 to 240	3/16	3/8	1/4	1/2	5/16	5/8
Over 48 to 60. incl	0.0	1/4	7/16	5/16	5/8	3/8	3/4
Over 60 to 84, incl		3/8	1/2	7/16	11/16	1/2	3/4
Over 84 to 108, incl		7/16	9/16	1/2	3/4	5/8	7/8
Over 108		1/2	5/8	5/8	7/8	11/16	1
48 and under	over 240 to 360	1/4	1/2	5/16	5/8	3/8	3/4
Over 48 to 60, incl	OVEI 240 to 300	5/ <sub>16</sub>	5/8	3/8	3/4	1/2	3/4
Over 60 to 84, incl		7/16	11/16	1/2	3/4	5/8	7/8
Over 84 to 108, incl		9/16	3/4	5/8	7/8	3/4	1
Over 108		5/8	7/8	11/16	1	7/8	1
60 and under	over 360 to 480	<sup>7</sup> / <sub>16</sub>	11/8	1/2	11/4	5/8	13/8
Over 60 to 84, incl		1/2	11/4	5/8 3/-	13/8	3/ <sub>4</sub>	11/2
Over 84 to 108, incl		9/16	11/4	3/4	13/8	7/8	11/2
Over 108		3/4	13⁄8	7/8	11/2	1	15⁄8
60 and under	over 480 to 600	7/16	11/4	1/2	11/2	5/8	15/8
Over 60 to 84, incl		1/2	13/8	5/8	11/2	3/4	15/8
Over 84 to 108, incl		5/8	13/8	3/4	11/2	7/8	15/8
Over 108		3/4	11/2	7/8	<b>1</b> 5⁄8	1	13/4
60 and under	over 600	1/2	13/4	5/8	17/8	3/4	17/8
Over 60 to 84, incl		5/8	13/4	3/4	17/8	7/8	17/8
Over 84 to 108, incl		5/8	13/4	3/4	17/8	7/8	17/8
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Over 108		7/8	13/4	1 1 • >	2	11/8	21/4
	(https://st	Tolerance C	Over Specified W	idth and Length fo	r Given Width, Le		kness, mm
	Length, mm	Tolerance C Under	Over Specified W 9.5 mm	/idth and Length fo 9.5 to 12.7 mm,	or Given Width, Le incl in Thickness	ength, and Thic Over 12.7 mr	kness, mm n in Thickness
Width, mm	Length, mm	Tolerance C Under Width	Over Specified W 9.5 mm Length	/idth and Length fo 9.5 to 12.7 mm, Width	or Given Width, Le incl in Thickness Length	ength, and Thio Over 12.7 mr Width	kness, mm n in Thickness Length
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Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under lands ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1219 to 1524, incl Over 1219 to 2134, incl Over 1524 to 2134, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 12.7	Dver Specified W 9.5 mm  Length 4.8 6.4 7.9 9.5 11.1 7bb4 9.5 9.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2	## Annual Content of the Content of	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 6aa l a12.7 /ast 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 2134 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under lands ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1219 to 1524, incl Over 1524 to 2134, incl Over 1524 to 2134, incl Over 1524 to 2743, incl Over 2743  1524 mm and under	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096  over 6096 to 9144	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 713 11.1 12.7 6.4 7.9 11.1 12.7 6.4 7.9 11.1 14.3 15.9	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb 4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6	### Add ### Ad	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under lands ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 1524 to 2134, incl	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7	Over Specified W 9.5 mm  Length 4.8 6.4 7.9 9.5 3.11.1 7.5 4.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8	7.9 9.5 12.7 15.9 17.5 12.7 15.9	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 17.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under and ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1524 mm and under Over 2743  1524 mm and under Over 1524 to 2134, incl Over 1524 to 2134, incl Over 2743	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096  over 6096 to 9144	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 8-22 11.1 7 bb 4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8	Aidth and Length for 9.5 to 12.7 mm, Width 4.8 6.4 7.9 9.5 11.1 - 4.6 6.4 6.4 7.9 11.1 12.7 15.9 7.9 9.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 19.1	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9 34.9	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 m-b7.9 -2 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1 38.1
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under and ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1524 mm and under Over 2743  1524 mm and under Over 1524 to 2134, incl Over 1524 to 2134, incl Over 2743	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096  over 6096 to 9144	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7	Over Specified W 9.5 mm  Length 4.8 6.4 7.9 9.5 3.11.1 7.5 4.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8	7.9 9.5 12.7 15.9 17.5 12.7 15.9	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 17.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under and ite Over 1219 to 1524, incl Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2743  1219 mm and under Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 2743  1524 mm and under	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096  over 6096 to 9144	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 8-22 11.1 7 bb 4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8	Aidth and Length for 9.5 to 12.7 mm, Width 4.8 6.4 7.9 9.5 11.1 - 4.6 6.4 6.4 7.9 11.1 12.7 15.9 7.9 9.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 19.1	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9 34.9	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 m-b7.9 -2 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	ekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1 38.1
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under lands ite Over 1219 to 1524, incl Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743  1524 mm and under Over 2743  1524 mm and under Over 2743  1524 mm and under Over 2743	3658 and under  h.ai/catalog/standards/sisover 3658 to 6096  over 6096 to 9144	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 14.3 15.9	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8 34.9	Aidth and Length for 9.5 to 12.7 mm, Width 4.8 6.4 7.9 9.5 11.1 12.7 15.9 7.9 9.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 19.1 22.2	Figure 3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 12.7 15.9 17.5	Rekness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1 38.1 41.3
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under and site Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1524 to 2134, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743  1524 mm and under Over 2743  1524 mm and under Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743	3658 and under  h.ai/catalog/standards/sis over 3658 to 6096  over 6096 to 9144  over 9144 to 12 192	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3 19.1 11.1 12.7	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8 34.9 31.8	7.9 9.5 11.1 12.7 15.9 7.9 9.5 12.7 15.9 17.5 12.7 15.9 19.1 22.2 12.7 15.9 19.1	Figure 3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5	Riness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 25.4 34.9 38.1 38.1 41.3
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Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under and site Over 1219 to 1524, incl Over 1524 to 2134, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1234 to 2743, incl Over 2134 to 2743, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743  1524 mm and under Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743  1524 mm and under Over 1524 to 2134, incl Over 2743	3658 and under  h.ai/catalog/standards/sis over 3658 to 6096  over 6096 to 9144  over 9144 to 12 192	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3 19.1 11.1 12.7 14.3 19.1	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8 34.9 34.9 34.9 38.1	Aidth and Length for 9.5 to 12.7 mm, Width 4.8 6.4 7.9 9.5 11.1 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 19.1 22.2 12.7 15.9 19.1 22.2	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9 34.9 38.1 38.1 38.1 38.1 38.1 38.1	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 17.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 19.1 22.2 25.4	Riness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 25.4 34.9 38.1 38.1 41.3 41.3 41.3 44.3
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1524 mm and under Over 2134 to 2743, incl Over 2134 to 2743, incl Over 2134 to 2743, incl Over 2743  1524 mm and under	3658 and under  h.ai/catalog/standards/sis over 3658 to 6096  over 6096 to 9144  over 9144 to 12 192  over 12 192 to 15 240	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3 19.1 11.1 12.7 14.3 19.1	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8 34.9 34.9 38.1	7.9 9.5 12.7 15.9 17.5 12.7 15.9 19.1 22.2 12.7 15.9 19.1 22.2 15.9	Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9 34.9 38.1 38.1 38.1 38.1 41.3	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 19.1 22.2 25.4 15.9 19.1	Riness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 122.2 25.4 19.1 19.1 22.2 25.4 34.9 38.1 38.1 38.1 41.3 41.3 44.3
Width, mm  1219 mm and under Over 1219 to 1524, incl Over 2134 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under lands ite Over 1219 to 1524, incl Over 1524 to 2134, incl Over 2134 to 2743, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 2743  1219 mm and under Over 1219 to 1524, incl Over 1524 to 2134, incl Over 1524 to 2743, incl Over 2743  1524 mm and under	3658 and under  h.ai/catalog/standards/sis over 3658 to 6096  over 6096 to 9144  over 9144 to 12 192	Tolerance C Under Width 3.2 4.8 6.4 7.9 9.5 11.1 12.7 6.4 7.9 11.1 14.3 15.9 11.1 12.7 14.3 19.1 11.1 12.7 14.3 19.1	Diver Specified W 9.5 mm  Length  4.8 6.4 7.9 9.5 11.1 7bb4 9.5 11.1 12.7 14.3 15.9 12.7 15.9 17.5 19.1 22.2 28.6 31.8 31.8 34.9 34.9 34.9 38.1	Aidth and Length for 9.5 to 12.7 mm, Width 4.8 6.4 7.9 9.5 11.1 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 17.5 12.7 15.9 19.1 22.2 12.7 15.9 19.1 22.2	r Given Width, Le incl in Thickness Length 6.4 7.9 9.5 11.1 12.7 15.9 17.5 19.1 22.2 15.9 19.1 19.1 22.2 25.4 31.8 34.9 34.9 38.1 38.1 38.1 38.1 38.1 38.1	ength, and Thic Over 12.7 mr Width 7.9 9.5 11.1 12.7 15.9 17.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 17.5 9.5 12.7 15.9 19.1 22.2 25.4	Riness, mm n in Thickness Length 9.5 11.1 12.7 14.3 17.5 2 15.9 19.1 19.1 22.2 25.4 19.1 19.1 22.2 25.4 25.4 34.9 38.1 38.1 41.3 41.3 41.3 44.3

A The tolerance under specified width and length is 1/4 in. (6.4 mm).

B Rectangular plates over 1 in. (25.4 mm) in thickness are not commonly sheared and are machined or otherwise cut to length and width or produced in the size as rolled, uncropped.