



AEROSPACE MATERIAL SPECIFICATION

AMS2262™

REV. H

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Superseding AMS2262G

Tolerances
Nickel, Nickel Alloy, and Cobalt Alloy Sheet, Strip, and Plate

RATIONALE

AMS2262H corrects an error for flatness in Table 9 and results from a Five-Year Review and update of this specification.

1. SCOPE

This specification covers established manufacturing tolerances applicable to sheet, strip, and plate of nickel, nickel alloys, and cobalt alloys ordered to inch/pound dimensions. These tolerances apply to all conditions, unless otherwise noted. The term "excl" is used to apply only to the higher figure of a specified range.

1.1 Where the terms "nickel," "nickel-copper," "nickel-chromium," "nickel-molybdenum," "nickel-molybdenum-chromium," and "cobalt" are used without qualification, they refer to both non-heat-treatable and heat-treatable alloys as applicable, unless otherwise noted.

2. APPLICABLE DOCUMENTS

There are no referenced publications specified herein.

3. THICKNESS

Thickness for sheet and strip is measured at any place on widths under 1 inch, at any place 3/8 inch and over from an edge on widths 1 inch and over, and for plate at least 3/8 inch but not more than 3 inches from an edge.

3.1 Sheet

3.1.1 Nickel, Nickel-Chromium, and Nickel-Copper Alloys

For thickness 0.018 inch and under, tolerances apply only to widths of 36 inches and under in lengths 96 inches and under. Cold rolled tolerances do not apply to precipitation-hardenable nickel-chromium alloys over 44 inches wide.

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Table 1

Specified Thickness Inch	Thickness Tolerance, Inch, Plus and Minus Cold Rolled Widths of 48 Inches and Under	Thickness Tolerance, Inch, Plus and Minus Cold Rolled Widths of Over 48 Inches to 60, incl	Thickness Tolerance, Inch, Plus and Minus Hot Rolled Widths of 48 Inches and Under	Thickness Tolerance, Inch, Plus and Minus Hot Rolled Widths of Over 48 Inches to 60, incl
0.010 to 0.018, incl	0.002	--	--	--
Over 0.018 to 0.025, incl	0.002	0.003	0.003	0.004
Over 0.025 to 0.034, incl	0.003	0.004	0.004	0.005
Over 0.034 to 0.056, incl	0.004	0.005	0.005	0.006
Over 0.056 to 0.070, incl	0.005	0.006	0.006	0.007
Over 0.070 to 0.078, incl	0.006	0.007	0.007	0.008
Over 0.078 to 0.093, incl	0.007	0.008	0.008	0.009
Over 0.093 to 0.109, incl	0.007	0.009	0.009	0.010
Over 0.109 to 0.125, incl	0.008	0.010	0.010	0.012
Over 0.125 to 0.140, incl	0.008	0.010	0.012	0.014
Over 0.140 to 0.171, incl	0.009	0.012	0.014	0.016
Over 0.171 to 0.187, incl	0.010	0.013	0.015	0.017

3.1.2 Nickel-Molybdenum, Nickel-Molybdenum-Chromium, and Cobalt Alloys (Widths 48 Inches and Under)

For specified thicknesses over 0.187 inch, plate tolerances of Table 5 apply.

Table 2

Specified Thickness Inch	Thickness Tolerances, Inch, Plus	Thickness Tolerances, Inch, Minus
0.010 to 0.018, incl	0.002	0.002
Over 0.018 to 0.025, incl	0.003	0.003
Over 0.025 to 0.034, incl	0.004	0.004
Over 0.034 to 0.056, incl	0.005	0.005
Over 0.056 to 0.070, incl	0.006	0.006
Over 0.070 to 0.078, incl	0.007	0.007
Over 0.078 to 0.093, incl	0.008	0.008
Over 0.093 to 0.109, incl	0.009	0.009
Over 0.109 to 0.125, incl	0.010	0.010
Over 0.125 to 0.140, incl	0.013	0.010
Over 0.140 to 0.171, incl	0.016	0.010
Over 0.171 to 0.187, incl	0.018	0.010

3.2 Cold-Rolled Strip

3.2.1 All Alloys

Table 3 does not apply to precipitation-hardenable nickel-chromium and nickel-molybdenum-chromium alloys for specified thicknesses over 0.025 inch or to any alloy in widths over 12 inches.

Table 3

Specified Thickness (T) Inch	Thickness Tolerance, Inch Plus and Minus All Widths
Up to 0.006, excl	0.10T
0.006 to 0.015, incl	0.001
Over 0.015 to 0.050, incl	0.0015
Over 0.050 to 0.093, incl	0.0025
Over 0.093 to 0.125, incl	0.004

3.3 Hot-Rolled Plate

Minus tolerance shall be 0.010 inch for all widths and all thicknesses in all alloys; plus tolerances shall be as shown in 3.3.1 and 3.3.2.

3.3.1 Nickel, Nickel-Chromium, and Nickel-Copper Alloys

Tolerances shown in Table 4 are only approximate for precipitation-hardenable nickel-chromium alloys; failure to meet these tolerances shall not be cause for rejection of such alloy product.

Table 4

Specified Thickness (T) Inches	Thickness Tolerance, Inch, Plus Only For Widths Up to 48 Inches, excl	Thickness Tolerance, Inch, Plus Only For Widths 48 to 60 Inches, excl	Thickness Tolerance, Inch, Plus Only For Widths 60 to 72 Inches, excl	Thickness Tolerance, Inch, Plus Only For Widths 72 to 84 Inches, excl	Thickness Tolerance, Inch, Plus Only For Widths 84 to 96 Inches, incl
0.1875 to 0.3125, excl	0.113T	0.132T	0.150T	0.169T	0.184T
0.3125 to 0.375, excl	0.094T	0.113T	0.132T	0.150T	0.169T
0.375 to 0.4375, excl	0.088T	0.094T	0.113T	0.132T	0.150T
0.4375 to 0.500, excl	0.075T	0.088T	0.094T	0.113T	0.132T
0.500 to 0.625, excl	0.063T	0.075T	0.088T	0.094T	0.113T
0.625 to 0.750, excl	0.057T	0.069T	0.075T	0.088T	0.094T
0.750 to 1.000, excl	0.050T	0.057T	0.069T	0.075T	0.088T
1.000 and over	0.050T	0.050T	0.057T	0.069T	0.075T