

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
29 West 39th Street
New York City

AMS 2252

Issued 7-1-45

Revised

TOLERANCES Alloy Steel Sheet and Strip

Page 1 of 3 pages

1. PURPOSE: To publish established manufacturing tolerances.
2. APPLICATION: Tolerances shown herein apply, unless otherwise agreed between purchaser and vendor. These tolerances apply to all conditions, unless otherwise noted.
3. THICKNESS:

TABLE I

Thickness Inches	Tolerance, Inch			
	For sheets 14 inches wide or less		For sheets over 14 inches wide	
0.018 and less	+.002	-.002	±.002	
Over 0.018 to 0.028, incl.	+.002	-.003	±.003	
Over 0.028 to 0.037, incl.	+.003	-.003	±.003	
Over 0.037 to 0.050, incl.	+.003	-.003	±.004	
Over 0.050 to 0.062, incl.	+.004	-.004	±.004	
Over 0.062 to 0.078, incl.	+.004	-.004	±.005	
Over 0.078 to 0.109, incl.	+.006	-.006	±.006	
Over 0.109 to 0.141, incl.	+.006	-.006	±.007	
Over 0.141 to 0.187, incl.	+.006	-.006	±.008	
Over 0.187 to 0.250, incl.	+.020	-.010	+.020	-.010
Over 0.250 to 0.375, incl.	+.025	-.010	+.025	-.010
Over 0.375 to 0.500, incl.	+.030	-.010	+.030	-.010
Over 0.500 to 0.625, incl.	+.035	-.010	+.035	-.010
Over 0.625 to 0.750, incl.	+.040	-.010	+.040	-.010
Over 0.750 to 0.875, incl.	+.045	-.010	+.045	-.010
Over 0.875 to 1.000, incl.	+.050	-.010	+.050	-.010
Over 1.000 to 1.500, incl.	+.065	-.010	+.065	-.010

Thickness is measured at any place on stock less than 1 inch wide; at any place 3/8 inch from an edge on stock 1 inch or wider.

4. WIDTH:

TABLE III

	Tolerance, Inch					
	Thickness Ranges, Inch					
	Over	Over	Over	Over	Over	Over
	.102	.249	.374	.624	.999	.999
	to	to	to	to	to	to
	.249	.374	.624	.999	1.500	1.500
	incl.	incl.	incl.	incl.	incl.	incl.
Width						
Inches						
3-1/2 and under	+1/16	-0	+1/8	+1/32	+1/32	+1/32
Over 3-1/2 to 6, incl.	+3/16	-0	+3/16	+1/16	+1/16	+1/16
Over 6 to 12, incl.	+3/16	-0	+3/8	+7/16	+1/2	+5/8
Over 12 to 32, incl.	+3/16	-0	+3/8	+7/16	+1/2	+5/8
Over 32 to 48, incl.	+1/4	-0	+1/4	+7/16	+1/2	+5/8
Over 48 to 60, incl.	+1/4	-0	+3/8	+7/16	+1/2	+5/8