

ALMEN A STRIP SPECIFICATIONS

inches(mm)

SPECIFICATION	LENGTH		WIDTH		THICKNESS		FLATNESS	HARDNESS
Electronics Inc. Grade A-1S	<u>3.008</u> 2.985	2.9965 ± 0.0115	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0513</u> 0.0505	0.0509 ± 0.0004	±0.0005	HRC 45-48
	<u>(76.40)</u> (75.82)	(76.11 ± 0.29)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.303)</u> (1.283)	(1.293 ± 0.01)	(±0.013)	
Electronics Inc Grade A-1B	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.295 ± 0.025)	(±0.038)	
Electronics Inc. Grade A-1	<u>3.008</u> 2.985	2.9965 ± 0.0115	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> (75.82)	(76.11 ± 0.29)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.311)</u> (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Electronics Inc. Grade A-2	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.295 ± 0.025)	(±0.038)	
Electronics Inc² Grade A-3 NSN 6635-00-512-1892	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.295 ± 0.025)	(±0.038)	
AIResearch EMS92406 [Grade A-1S]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0515</u> <u>0.0505</u>	0.051 ± 0.0005	±0.0005	HRC 45-48
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.308)</u> (1.283)	(1.2955 ± 0.0125)	(±0.013)	
ASTM B851-94 [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.748</u> 0.744	0.746 ± 0.002	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> (75.60)	(76.0 ± 0.4)	<u>(19.00)</u> (18.90)	(18.95 ± 0.05)	<u>(1.311)</u> (1.270)	(1.2905 ± 0.0205)	(±0.025)	
BAEP 2009 [Grade A-2]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Bell Helicopter TEXTRON BPS FW4409 [Grade A-1]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0010	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.025)	
Boeing BAC5730 M [Grade A-1B]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Boeing BAC5730 N [Grade A-1B]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 45-48
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Boeing PSD 6-81 [Grade A-2]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Boeing PSD 6-88 [Grade A-2]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Boeing P.S. 14023 [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	0.746 ± 0.004	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	<u>(76.40)</u> (75.60)	(76.0 ± 0.4)	<u>(19.05)</u> (18.85)	(18.95 ± 0.1)	<u>(1.311)</u> (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Caterpillar 1E 2054 [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	0.746 ± 0.004	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	<u>(76.40)</u> (75.60)	(76.0 ± 0.4)	<u>(19.05)</u> (18.85)	(18.95 ± 0.1)	<u>(1.32)</u> (1.27)	(1.295 ± 0.025)	(±0.025)	
deHavilland Aircraft PPS. 17.03 [Grade A-2]	<u>3.015</u> <u>2.985</u>	3.00 ± 0.015	<u>0.750</u> <u>0.745</u>	.7475 ± 0.0025	<u>0.0520</u> <u>0.0500</u>	0.051 ± 0.001	±0.0015	HRC 44-50
	<u>(76.58)</u> (75.82)	(76.20 ± 0.38)	<u>(19.05)</u> (18.92)	(18.985 ± 0.065)	<u>(1.321)</u> (1.270)	(1.2955 ± 0.0255)	(±0.038)	

Garrett Aviation GPE-00071 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
General Dynamics FPS-1302 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
GE D50TF14-S1 [Grade A-1]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
GE P11C-AG4 Rev. D [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S6 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S11 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
GE P11TF3-S13 [Grade A-1S]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0005	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.013)	
General Motors Engineering Standards GM 4283p [Grade A-1]	3.007 2.977	2.992 ± .015	0.748 0.744	.746 ± .002	0.0524 0.0500	0.0512 ± 0.0012	±0.0008	HRC 44-55
	(76.38) (75.62)	(76.0 ± 0.38)	(19.00) (18.90)	(18.95 ± 0.05)	(1.330) (1.270)	(1.30 ± 0.03)	(±0.020)	
Hawker Siddeley Aviation S.29.46 [Grade A-1]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(76.58) (75.60)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
Lockheed-Georgia STP51-501 [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
MIL-P-81985 [Grade A-1]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
MIL-S-13165C [Grade A-2]	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Navar 02-1-517/T.O. 2-1-11/DMWR 55-2800-206 [Grade A-1]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Navistar International Transportation Corp. CEMS A-39 [Grade A-1]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 - 50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
NSN 6635-00-512-1892 [Grade A-3] ²	3.015 2.985	3.00 ± 0.015	0.750 0.745	.7475 ± 0.0025	0.0520 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(76.58) (75.82)	(76.20 ± 0.38)	(19.05) (18.92)	(18.985 ± 0.065)	(1.321) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
Pratt & Whitney 70-41-02 [Grade A-1]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Pratt & Whitney PT444143 A [Grade A-1S]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0515 0.0505	0.051 ± 0.0005	±0.0005	HRC 45-49
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.308) (1.283)	(1.2955 ± 0.0125)	(±0.013)	
Pratt & Whitney PWA 36906 [Grade A-1]	3.008 2.976	2.992 ± 0.016	0.750 0.742	.746 ± 0.004	0.0516 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 -50
	(76.40) (75.60)	(76.0 ± 0.4)	(19.05) (18.85)	(18.95 ± 0.1)	(1.311) (1.270)	(1.2905 ± 0.0205)	(±0.025)	

Pratt & Whitney TAM34744 M [Grade A-1]	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0010	HRC 44-50
	(<u>76.58</u>) (75.82)	(76.20 ± 0.38)	(<u>19.05</u>) (18.92)	(18.985 ± 0.065)	(<u>1.321</u>) (1.270)	(1.2955 ± 0.0255)	(±0.025)	
SAE-AMS-13165C [Grade A-2]	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(<u>76.58</u>) (75.82)	(76.20 ± 0.38)	(<u>19.05</u>) (18.92)	(18.985 ± 0.065)	(<u>1.321</u>) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
SAE AMS2430L ¹ [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	.746 ± 0.004	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(<u>76.40</u>) (75.60)	(76.0 ± 0.4)	(<u>19.05</u>) (18.85)	(18.95 ± 0.1)	(<u>1.311</u>) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
SAE AMS2432B [Grade A-1S]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	.746 ± 0.004	<u>0.0513</u> 0.0503	0.0508 ± 0.0005	±0.0005	HRC 45-48
	(<u>76.40</u>) (75.60)	(76.0 ± 0.4)	(<u>19.05</u>) (18.85)	(18.95 ± 0.1)	(<u>1.303</u>) (1.278)	(1.2905 ± .0125)	(±0.013)	
SAE J442 JAN-95 [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	.746 ± 0.004	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44 - 50
	(<u>76.40</u>) (75.60)	(76.0 ± 0.4)	(<u>19.05</u>) (18.85)	(18.95 ± 0.1)	(<u>1.311</u>) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Sikorsky Aircraft [Grade A-2]	<u>3.015</u> 2.985	3.00 ± 0.015	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0520</u> 0.0500	0.051 ± 0.001	±0.0015	HRC 44-50
	(<u>76.58</u>) (75.82)	(76.20 ± 0.38)	(<u>19.05</u>) (18.92)	(18.985 ± 0.065)	(<u>1.321</u>) (1.270)	(1.2955 ± 0.0255)	(±0.038)	
SPOP 501 [Grade A-1]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	.746 ± 0.004	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(<u>76.40</u>) (75.60)	(76.0 ± 0.4)	(<u>19.05</u>) (18.85)	(18.95 ± 0.1)	(<u>1.311</u>) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
Volvo Aero Corp 18 22 58 [Grade A-1S]	<u>3.008</u> 2.976	2.992 ± 0.016	<u>0.750</u> 0.742	0.746 ± 0.004	<u>0.0513</u> 0.0503	0.0508 ± 0.0005	±0.0005	HRC 45-48
	(<u>76.40</u>) (75.60)	(76.0 ± 0.4)	(<u>19.05</u>) (18.85)	(18.95 ± 0.1)	(<u>1.303</u>) (1.278)	(1.29 ± .01)	(±0.013)	

NOTE: ¹ SAE AMS2430L section 3.2.2 states Test Strips: Shall conform to SAE J442 ...

² Guaranteed to meet the Spec for NSN6635-00-512-1892 but not certified

References the length
measured in inches

References the width
measured in inches

References the thickness
measured in inches

References the
flatness
measured in
inches

References
measured in
Rockwell
hardness C scale

Electronics Inc. Grade A-1	<u>3.008</u> 2.985	2.9965 ± 0.0115	<u>0.750</u> 0.745	.7475 ± 0.0025	<u>0.0516</u> 0.0500	0.0508 ± 0.0008	±0.0010	HRC 44-50
	(<u>76.40</u>) (75.82)	(76.11 ± 0.29)	(<u>19.05</u>) (18.92)	(18.985 ± 0.065)	(<u>1.311</u>) (1.270)	(1.2905 ± 0.0205)	(±0.025)	
	A		B		C		D	E

References to the
specification it meets

References the length
measured in millimeters

References the width
measured in inches

References the thickness
measured in inches

References the
flatness
measured in
millimeters

