

AMARI AEROSPACE LTD

Service on a Plate



Amari stock a comprehensive range of released Aluminium plate at Southampton available for AOG same day, next day or 2-3 day delivery requests.

Our range of British and American aerospace released plate can be supplied cut to tight tolerances near to component size from 1/4" up to 8" thick plate.

Every cut piece is etched with vital batch traceability information, direction of grain, and customer part number as required. Amari can also offer a full range of processing capabilities including surface machining, and pre-drilling.

We would welcome all your enquiries for Aluminium, Steels, Titanium, Nickel & Copper Alloys, in Bar, Sheet, Plate, Tube & Forgings to BS, AMS, QQ & MIL specifications.

For a prompt, courteous and competitive quote, please call, fax or email our sales team now:

Tel: 023 8074 2750

Fax: 023 8074 1947

email: sales@amari-aerospace.com



Aerospace Standards – Aluminium Plate – Chemical Composition & Mechanical Properties

BS or AMS Specification	Material Designation	Temper	Chemical Composition													Thickness mm			Mechanical Properties (LT)	
			Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others		Aluminium	Over	Up to and Including	0.2 % Proof Stress min N/mm ²	Tensile Strength min N/mm ²	Elongation min %	
			Al	Co	Mo	Si	Sn	Th	U	W		Y	Zr							
L 93 (AMS4029)	2014A	T651	0.50-0.9	0.50	3.9-5.0	0.40-1.2	0.20-0.8	0.10	0.2	Pb 0.05 Sn 0.05 Ti + Zr 0.20	-	-	-	-	6	12.5 25 40 63 90 115 140 410	410 410 400 390 390 370 350 410	460 460 450 430 430 420 410 410	7 6 5 5 4 4 4 4	
			0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.10-0.25	0.05	5.1-6.4	Pb 0.05 Sn 0.05 Ti + Zr 0.20	-	-	-	6	12.5 25 40 63 90 115 140 410	450 450 450 440 440 350 410	530 530 530 510 510 500 430	8 6 5 5 4 4 4	
			0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	0.05	0.2	Pb 0.05 Sn 0.05 Ti + Zr 0.20	-	-	-	6	12.5 25 40 63 90 115 140 410	280 280 280 270 270 270 260	430 430 420 410 410 410 390	10 10 9 9 8 8 4	
			0.7-1.3	0.5	0.10	0.4-1.0	0.5-1.2	0.25	0.10	0.2	Pb 0.05 Sn 0.05	0.2	-	-	All	All	240	295	295	8
AMS QQ-A-250/4	2024	T351	0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	0.25	-	-	0.15	0.05	0.15	6.3 12.7 25.4 38.1 50.8 76.2 101.6	290 290 290 290 290 290 283	441 434 427 427 410 410 393	12 8 7 6 6 4 4		
			0.40-0.80	0.70	0.15-0.40	0.15	0.80-1.20	0.04-0.35	-	0.25	-	0.15	0.05	0.15	6.3 12.7 25.4 38.1 50.8 76.2 101.6	241 241 241 241 241 241 241	290 290 290 290 290 290 290	10 9 8 6 6 6 6		
AMS QQ-A-250/12	7075	T651	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	-	0.20	0.05	0.15	6.3 12.7 25.4 38.1 50.8 76.2 101.6	462 469 531 524 496 462 372	538 538 531 524 496 462 372	9 7 6 5 5 3 3		
			0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	-	0.20	0.05	0.15	6.3 12.7 25.4 38.1 50.8 76.2 101.6	393 393 393 359 338 338 331	476 476 476 455 441 448 421	7 6 6 6 6 6 5		
AMS QQ-A-250/29 AMS4101	2124	T851	0.20	0.30	3.8-4.9	0.30-0.9	1.2-1.8	0.10	0.25	-	0.15	0.05	0.15	0.15	38.1 50.8 76.2 101.6 127 152.4 317	393 393 386 379 372 317	455 448 448 441 441 434 427	5 4 4 4 4 4 8		
			0.20	0.30	3.8-4.9	0.30-0.9	1.2-1.8	0.10	0.25	-	0.15	0.05	0.15	0.15	38.1 50.8 76.2 101.6 127 152.4 317	393 393 386 379 372 317	455 448 448 441 441 434 427	5 4 4 4 4 4 8		
AMS QQ-A-250/30	2219	T851	0.20	0.30	5.8-6.8	0.20-0.40	0.02	-	0.10	Zr 0.10-0.25 V 0.05-0.15	0.02-0.10	0.05	0.15	0.15	6.3 12.7 25.4 38.1 50.8 76.2 101.6 127 152.4 317	317 317 310 303 296 289	427 427 413 413 406 393	8 7 6 5 5 4 4		
			0.12	0.15	2.0-2.6	0.10	1.9-2.6	0.04	-	5.7-6.7	-	0.06	-	-	6.3 12.7 25.4 38.1 50.8 76.2 101.6 127 152.4 317	441 434 427 421 421 414 407 400	510 503 496 490 483 476 469	10 9 6 6 4 4 4		
AMS4050	7050	T7451	0.12	0.15	2.0-2.6	0.10	1.9-2.6	0.04	-	5.7-6.7	-	-	-	6.3 12.7 25.4 38.1 50.8 76.2 101.6 127 152.4 317	441 434 427 421 421 414 407 400	510 503 496 490 483 476 469	10 9 6 6 4 4 4			

Data provided for comparison purposes only. For design calculations please check latest edition of individual standard.