

# AMARI AEROSPACE LTD

## Raising the Bar



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

Our range of British and American specification aerospace bar in rounds, flats and squares is fully released in accordance with our AS9120 accreditation and proprietary approvals.

Amari have a full range of processing capabilities including: bar sawing, blocking, pre-drilling, surface machining, scalping, deburring, and dot matrix engraving.

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

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ALUMINIUM BAR



# Aerospace Standards – Aluminium Bar – Chemical Composition & Mechanical Properties

BS, DTD or AMS Specification	Material Designation	Temper	Chemical Composition											Thickness			Mechanical Properties			
			Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others		Aluminium	Over mm	Up to and Including mm	% Proof Stress min N/mm <sup>2</sup>	Tensile Strength min N/mm <sup>2</sup>	Elongation min %	
			Al	Si	Fe	Cu	Mn	Mg	Cr	Ni		Zn	Each						Total	On 50mm or 2"
L102	2014A	T4511	0.50-0.9	0.50	3.9-5.0	0.40-1.2	0.20-0.8	0.10	0.20	0.20	Pb 0.05 Sn 0.05 Ti + Zr 0.20	-	-	-	-	10	235	370	11	-
L111	6082	T6511	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	-	Rem	20	255	295	7	8	
L160	7075	T73511	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	Ti + Zr 0.25	0.20	0.05	Rem	10	400	470	7	8	
L168	2014A	T6511	0.50-0.9	0.50	3.9-5.0	0.40- 1.2	0.20- 0.8	0.10	0.10	0.25	Ti + Zr 0.20	0.15	0.05	Rem	2.5	370	415	6	-	
L170	7075	T6511	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	Ti + Zr 0.25	0.20	0.05	Rem	10	480	540	4	4	
DTD5014A	2618A	T6	0.25	0.9-1.4	1.8-2.7	0.2	1.2-1.8	-	0.8-1.4	0.1	Pb 0.05 Sn 0.05 Ti + Zr 0.2	0.2	-	Rem	10	320	400	5	-	
AMS QQ-A-200/3	2024	T3511	0.50	0.50	3.8-4.9	0.30- 0.9	1.2- 1.8	0.10	-	0.25	-	0.15	0.05	Rem	6.3	290	392	12	-	
AMS QQ-A-200/8	6061	T6511	0.40-0.8	0.70	0.15-0.40	0.15	0.80-1.20	0.04-0.35	-	0.25	-	0.15	0.05	Rem	6.3	241	262	8	-	
AMS QQ-A-200/11	7075	T6511	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	Rem	6.3	482	538	7	-	
AMS 4342	7050	T74511	0.12	0.15	2.0-2.6	0.10	1.9-2.6	0.04	-	5.7-6.7	Zr 0.08-0.15	0.06	0.05	Rem	All	434	503	-	7*	
AMS QQ-A-225/6	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	Rem	12.7	310	427	10	-	
AMS QQ-A-225/8	6061	T651	0.4-0.8	0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.35	-	0.25	-	0.15	0.05	Rem	12.7	241	290	10	-	
AMS QQ-A-225/9	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	Rem	12.7	455	531	7	-	
AMS QQ-A-225/9	7075	T7351	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	Rem	12.7	386	469	10	-	

\* Elongation in 4 X diameter, \*\* Elongation in 5 X diameter. Data provided for comparison purposes only. For design calculations please check latest edition of individual standard.