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A Clean Sheet

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Aerospace Standards – Aluminium Sheet – Chemical Composition & Mechanical Properties

AMARI AEROSPACE LTD

BS 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/mm²	Tensile Strength		Elongation
													Each	Total					Min N/mm²	Max N/mm²	
L59	3103	H16 or H26	0.50	0.70	0.10	0.90-1.50	0.30	0.10	-	0.20	Ti+Zr 0.10	-	0.05	0.15	Rem	0.4 0.8 1.3	0.8 1.3 6.0	- - -	160 160 160	195 195 195	2 3 4
L61	3103	O	0.50	0.70	0.10	0.90-1.50	0.30	0.10	-	0.20	Ti+Zr 0.10	-	0.05	0.15	Rem	0.4 0.8 1.3 3.0	0.8 1.3 3.0 6.0	- - - -	90 90 90 90	130 130 130 130	20 23 24 25
L80	5251	O	0.40	0.50	0.15	0.10-0.50	1.70-2.40	0.15		0.15	-	0.15	0.05	0.15	Rem	0.4 2.6	2.6 6.0	60 60	160 160	200 200	18 20
L81	5251	H16 or H26	0.40	0.50	0.15	0.10-0.50	1.70-2.40	0.15	-	0.15	-	0.15	0.05	0.15	Rem	0.4 0.8 1.3	0.8 1.3 6.0	175 175 175	225 225 225	275 275 275	3 4 5
L113	6082	T6	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	0.2 3.0	3.0 6.0	255 240	295 295	- -	8 8
L156 & L158	2014A	T4	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	0.15	Rem	All	All	255	400	-	14
L157 & L159	2014A	T6	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	0.15	Rem	0.4 0.8 1.6	0.8 1.6 6.0	370 380 390	430 440 440	- - -	6 7 7
L163	2014A Clad 1050A	T3	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	0.15	Rem	0.4 0.8 1.6	0.8 1.6 6.0	245 245 250	385 385 390	- - -	13 14 14
L164 & L166	2014A Clad 1050A	T4	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	0.15	Rem	0.4 1.6	1.6 6.0	240 245	385 390	- -	14 14
L165 & L167	2014A Clad 1050A	T6	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	0.15	Rem	0.4 0.8 1.6	0.8 1.6 6.0	350 350 370	415 420 420	- - -	7 8 9
AMS QQ-A-250/4	2024 BARE	O	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	Rem	0.2	12.6	97 97	221 221	- -	12 12
AMS QQ-A-250/4	2024 BARE	T3	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	Rem	0.2 0.5 3.2	0.5 3.2 6.3	290 290 290	434 434 441	- - -	12 15 15
AMS QQ-A-250/5	2024 CLAD	0	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	Rem	0.2 1.6	1.5 12.6	97 97	207 221	- -	12 12
AMS QQ-A-250/5	2024 CLAD	T3	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	Rem	0.2 0.5 1.6 3.2	0.5 1.5 3.2 6.3	269 269 276 276	407 407 421 427	- - - -	12 15 15 15
AMS QQ-A-250/8	5052	H34	0.25	0.40	0.10	0.10	2.2- 2.8	0.15- 0.35	-	0.10	-	-	0.05	0.15	Rem	0.2 0.5 1.2 2.9	0.5 1.2 2.9 6.3	234 234 234 234	- - - -	283 283 283 283	3 4 6 7
AMS QQ-A-250/11	6061	0	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	Rem	0.2 0.5 3.2	0.5 3.2 12.6	83 83 83	152 152 152	- - -	14 16 18
AMS QQ-A-250/11	6061	T6	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	Rem	0.2 0.5	0.5 6.3	241 241	290 290	- -	8 10
AMS QQ-A-250/12	7075 BARE	0	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	Rem	0.3	12.6	145	276	-	10
AMS QQ-A-250/12	7075 BARE	T6	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	Rem	0.3 1.0 3.2	0.9 3.1 6.3	462 496 476	524 538 538	- - -	7 8 8
AMS QQ-A-250/13	7075 CLAD	0	0.40	0.50	1.2- 2.0	0.30	2.1- 2.9	0.18- 0.35	-	5.1- 6.1	-	0.20	0.05	0.15	Rem	0.2 0.3 1.6	0.3 1.5 4.7	138 138 138	248 248 261	- - -	9 10 10
AMS QQ-A-250/13	7075 CLAD	T6	0.40	0.50	1.2- 2.0	0.30	2.1- 2.9	0.18- 0.35	-	5.1- 6.1	-	0.20	0.05	0.15	Rem	0.3 1.0 1.6	0.9 1.5 4.7	414 427 434	483 496 503	- - -	7 8 8

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

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