

Material Selection for Aerospace & Defence

- FLATS
- WIRE
- TUBE
- EXTRUSIONS
- ROUND
- SHEET
- SPECIAL PROFILES
- SQUARE
- HEXAGON
- STRIP
- PLATE



Whilst every effort has been made to ensure the accuracy of this information it is for guidance only. E.&O.E.

BRITISH, INTERNATIONAL AND AMERICAN ALUMINIUM ALLOYS							
1050	2011	5052	6061	7010	L16/L17	L93/2014	L44
1200	2014A	5083	6062	7020	L59-L61	L95/7075	L102
3103	2024	5251	6063	7050	L80/L81	L97/2024	L111
	2090	5754	6082	7055	L113	L115	L160
	2091		6262	7068	L163/L164	DTD5120B	L168
	2099			7075	L166/L167		L56
	2199			7475			L114
	2618A			8090			

AMERICAN ALUMINIUM ALLOYS		
AMS QQA 250/4	2024 'O', T3,T81	AMS QQA 200/8 2024 T3511
AMS QQA 250/5	2024 'O', T3	AMS QQA 200/8 6061 T6511
AMS QQA 250/11	6061 'O', T4,T6	AMS QQA 200/11 7075 T6511
AMS QQA 250/12	7075 'O', T6	AMS QQA 225/6 2024 T351
AMS QQA 250/13	7075 'O', T6	AMS QQA 225/8 6061 T651
		AMS QQA 225/9 7075 T651
		AMS 4342 7050
		AMS 4331 7068

CARBON AND ALLOY STEELS			
4130 MIL-S-6758/AMS3646/AMS6345	S82	S154	15 CDV 6
4140 MIL-S-5626/AMS6349	S98	S155	16 NCD 13
4340 MIL-S-5000/AMS 6484	S99	S156	16 NCD 17
	S132	S514/5	32 CDV 13
	S154		40 CDV 20

STAINLESS STEELS		
13/8 PH AMS 5629	S80	FERRINOX® 255 (UNS S32550) AMINOX® 255 (UNS S32550) C250/AMS 6512/S162 C300/AMS 6514
15/5 PH AMS 5659	S130	
17/4 PH AMS 5643	S143/DEF STAN 95/14	
17/7 PH AMS 5528	S144/S145	
301 1/4H AMS 5517	S526	
301 1/2H AMS 5518	S527	
	T66	
	T72	
	DTD189	

FERRINOX AND AMINOX ARE REGISTERED TRADE MARKS OF SMITHS ADVANCED METALS

COPPER AND COPPER ALLOYS				
CZ108	C101	PB1	AMS 4640	DTD 498/B25
CZ112	C103	PB102	DTD 197A/B23	DEF STAN 02-835/NES835
CZ114	C106	NS101	DEF STAN 02-833/NES833	DTD 900/4805
CZ121	C111	NS103	SAE 660	ULTIBRON-CNS (CW111C) AMS 4533-35

ULTIBRON IS A TRADE MARK OF SMITHS ADVANCED METALS

TITANIUM AND TITANIUM ALLOYS			
GRADE	UK (BS)	USA (AMS)	USA (ASTM)
CP GD. 1	TA 1	4940	B265 & B348 GD. 1
CP GD. 2	TA 2,3	4902,4941	B265 & B348 GD. 2
CP GD. 3	-	4900	B265 & B348 GD. 3
CP GD. 4	TA 6,7	4901,4921	B265 & B348 GD. 4
Ti6Al4V GD. 5	TA 10,11,56	4911,4928	B265 & B348 GD. 5
Ti3Al2.5V GD. 9	-	4943,4989	B265 & B348 GD. 9

NICKEL, MAGNESIUM AND TUNGSTEN ALLOYS				
NICKEL	MAGNESIUM		TUNGSTEN	
625	WE54-T6	AZ61A-F	93W-Ni-Fe	80W-Ni-Cu
718	WE43A-T6	AZ31B-F	95W-Ni-Fe	90W-Ni-Cu
MP35N	ZW3	AZ81	97W-Ni-Fe	95W-Ni-Cu