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Engineering Steels		related specifications
EN1A	230M07	
EN3B	080A15	
EN8	080M40	
EN16	605M36	
EN19	708M40	
EN24	817M40	
EN32	080M15	
EN36	655M13	
EN40B	722M24	
EN41	905M31	



Round Plate/Sheet
Flat Square Bar
Hexagon Tube

Nickel Alloys		related specifications
Alloy 200/201	UNS N02200/N02201 NA11/ NA12	
Alloy 276	UNS 10276	
Alloy 400	UNS N04400, NA13	
Alloy 600	UNS N06600, NA14	
Alloy 601	UNS N06601	
Alloy 617	UNS N06617	
Alloy 625	UNS N06625, NA14	
Alloy 718	UNS N07718	
Alloy 800	UNS N08800	
Alloy 825	UNS N08825, NA16	
Alloy K-500	UNS N05500, NA18	



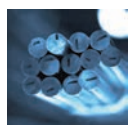
Round Plate Sheet
Flat Square Bar
Hexagon Angle Tube
Wire

Copper & Copper Alloys		related specifications
C101	CW004, Cu-ETP	
C103	CW008, Cu-OF	
C106	CW024, Cu-DHP	
C109	CW118C, CuTeP	
C110	CW009A, Cu-OFE	
C111	SigmaChip C2, CW114, CuSP	
ULTIBRON™CNS	CW111C, BSB25, DTD 498	



Round Plate/Sheet
Flat Square Bar
Hexagon Tube

Beryllium Copper		related specifications
Alloy 3/14	UNS C17510, CW110C CuNi2Be	
Alloy 10	C112, UNS C17500, CW104C, CuCo2Be	
Alloy 25	UNS 17200, CW101C, CuBe2, AMS 4533, AMS 4534, AMS 4535	
Alloy 33-25	UNS 17300, CW102C CuBe2Pb, AMS 4533 AMS 4534, AMS 4535	
Alloy 165	CB101, UNS C17000, CW101C, CuBe1.7	



Round Plate/Sheet Shapes

Brass Alloys		related specifications
CZ106	CW505	
CZ108	CW508	
CZ112	CW712	
CZ114	CW721	
CZ115	CW722	
CZ120	CW612	
CZ121	CW614	
CZ122	CW617	
CZ126	CW707	
CZ130	CW624	
CZ131	CW606	
CZ132	CW602	



Plate Sheet Flat Square Bar Hexagon Angle Tube Strip

Over 40 group customer aerospace approvals including: AIRBUS, BAE SYSTEMS, WESTLAND, GKN, BOMBARDIER



Copper Nickel Alloys		related specifications
CN102	NES 779, UNS C70600 CW352H	
CN107	NES 780, UNS C71500 CW354H	
NES 835	UNS C72420, DGS 357, DEF STAN 02-835	
ULTIBRON™NB	DTD 900/4805, 2.1504, UNS C72400	



Round Plate/Sheet Profiles

Bronze Alloys		related specifications
DTD197A	CA104 (B23), CW307G AMS 4640	
NES833	DEF STAN 02-833 UNS C63000	
SigmaBronze 12	PB1C, CC481K	
SigmaBronze 7	SAE660, C932	
PB102	CW451K, UNS C51000	



Round Plate/Sheet Profiles

Engineering Plastics		related specifications
ABS		
ACRYLIC		
CARP		
ECTFE		
HDPE		
NYLON 12		
NYLON 6 & 66		
PET-P		
CAST NYLON		
ACETAL		
PEEK		
PEI		
POLYPROPYLENE		
POLYCARBONATE		
PTFE		
PVC		



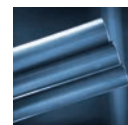
Rod Sheet Flat Square Bar Hexagon Angle Tube Strip

Nickel Silver		related specifications
NS101	CW402J, CuNi10Zn42Pb2	
NS103	CW401J, CuNi10Zn27	
NS104	CW403J, CuNi12Zn24	
NS106	CW409J, CuNi18Zn20	



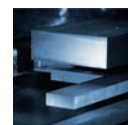
All Shapes

Magnesium Alloys		related specifications
AZ31	AMS 4375, AMS 4376, AMS 4377, AMS 4382	
AZ61	L503, L512, L513	
AZ80	AMS 4360, QQ-M-31B & 44B	
WE43	UNS M18430	
WE54	UNS M18410	
ZK60	AMS 4352, AMS 4362, QQ-M-40	
ZM21	BS 3370, BS3372, BS 3373	
ZW3	L505, L514, BS 3372, BS 3373	



Round Plate/Sheet Flat Square Bar Hexagon Angle Tube Profiles

Titanium & Titanium Alloys		related specifications
Ti-6Al-4V	TA10-13	
	AMS 4911, AMS 4928, AMS 4935, AMS 4904, AMS 4907	
Ti-3Al-2.5V	AMS 4975, AMS 4976, AMS 4919	
Ti-6-2-4-2	AMS 4975, AMS 4976, AMS 4919	
Ti-6-2-4-6	AMS 4981B	
CP Grade 1	TA1, AMS 4940	
CP Grade 2	TA 2-5, AMS 4902	
CP Grade 3	AMS 4900	
CP Grade 4	TA 6-9, AMS 4901	

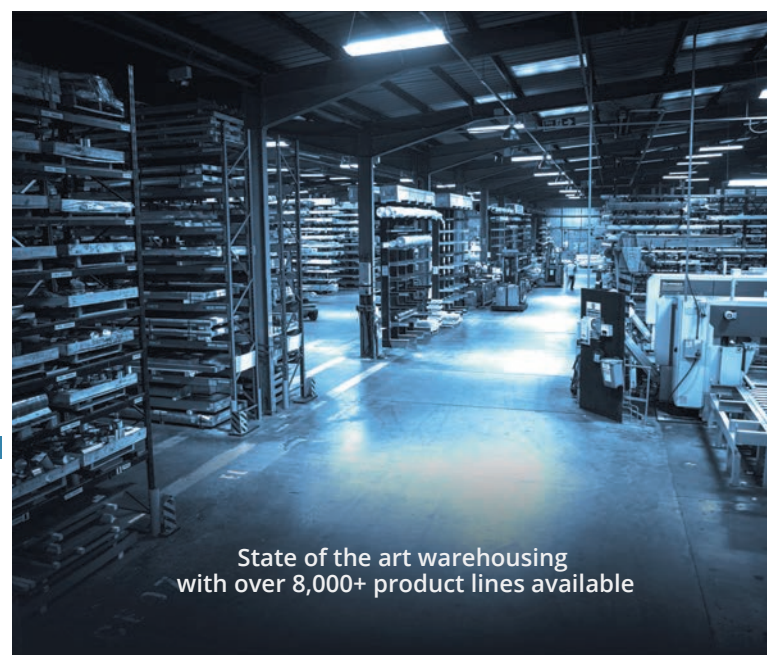


Round Plate Sheet Flat Square Bar Hexagon Angle Tube

Tungsten		related specifications
93W-Ni-Fe		
95W-Ni-Fe		
97W-Ni-Fe		
90W-Ni-Fe-Mo		
90W-Ni-Cu		
95W-Ni-Cu		



All Shapes



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London 020 7241 2430	Manchester 0161 794 8650	Nottingham 0115 925 4801	Norwich 01603 789 878	Redruth 01209 217 628	Verwood 01202 824 347	Belfast 02891 477378					

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A complete range of engineering raw materials and services

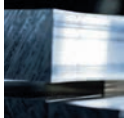
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- A full selection of first stage engineering services
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- UKAS approved in-house materials testing laboratory

Bar Cutting	Billets	Plate Sawing	Guillotining
Chamfering	Milling	Turning	Tube Honing
Circles/Rings	Coil Slitting	Vinyl Coating	Blanking

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Aerospace Aluminium Bar <small>related specifications</small>	
2014A	L102, L168
2024	QQ-A-200/3, QQ-A-225/6 AMS 4120, AMS 4339
2618A	DTD 5014A, AECMA 3553
6061	QQ-A-200/8, QQ-A-225/8
6082	L111
7010	DTD 5130
7050	AMS 4342
7075	L160, DTD 5124, AMS 4124, AMS 4167, QQ-A-225/9, QQ-A-200/11



**Rounds
Flats
Squares
Hexagon
Profiles**

Aerospace Aluminium Plate <small>related specifications</small>	
2014A	L93, DTD 5010
2024	L97, AMS 4035, AMS 4037, QQ-A-250/4
2124	
2219	
2618A	
6061	AMS 4025, AMS 4026, AMS 4027, QQ-A-250/11
6082	L115
7010	DTD 5120B, DTD 5130, AMS 4203, AMS 4204, AMS 4205
7050	AMS 4050, AMS 4201
7075	L95, AMS 4044, AMS 4045, AMS 4078, QQ-A-250/11, QQ-A-250/24
7175	
7475	AMS 4089, AMS 4090, AMS 4202



**Full Plates
Sawn Blocks
Machined Blocks
Profiled Blocks
Rings
Circles**

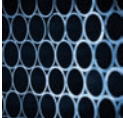
Aerospace Aluminium Sheet <small>related specifications</small>	
1200	L16, L17
2014A	Bare: L156/7/8/9 Clad: L163/4/5/6/7 QQ-A-250/3
2024	Clad: L109, L110
2618A	
3103	L59, L60, L61
5052	QQ-A-250/8
5251	L80, L81
6061	QQ-A-250/11
6082	L113
7050	
7075	L88, QQ-A-250/12, QQ-A-250/24, QQ-A-250/13 (clad)
7475	



**Bare Sheet
Clad Sheet
Polished Sheet**

**Guillotining
Stamping
Profiling
Vinyl Coating**

Aerospace Aluminium Tube <small>related specifications</small>	
1200	L54, L116
2014A	L105, L63
2024	AMS 4088, WW-T-700/3
3003	AMS 4065, WW-T-700/2
5251	L56
5052	AMS 4070, AMS 4071 WW-T-700/4
6061	L117, L118, AMS 4080, AMS 4083, WW-T-700/6
6082	L114
7075	WW-T-700/7



**Round Tube
Square Tube
Rectangular
Tube
Sectional Tube
Capillary Tube**

American Aluminium Alloys <small>related specifications</small>	
QQ-A-200/3	AMS 4165, AMS 4150
QQ-A-200/8	AMS 4173, AMS 4150
QQ-A-200/11	AMS 4169, AMS 4168
QQ-A-225/6	AMS 4120
QQ-A-225/8	AMS 4117
QQ-A-225/9	AMS 4124, AMS 4123 AMS 4122
QQ-A-250/4	AMS 4037
QQ-A-250/5	AMS 4040
QQ-A-250/11	AMS 4025, AMS 4026, AMS 4027
QQ-A-250/12	AMS 4044, AMS 4045
QQ-A-250/13	AMS 4048, AMS 4049
WW-T-700/3	AMS 4088
WW-T-700/6	AMS 4083



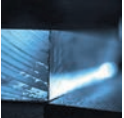
**Round
Plate
Sheet
Flat
Square Bar
Hexagon
Angle
Tube
Profiles**

Commercial Aluminium Alloys	
1050A	1B
SigmaChip® A2	2011
2014A	H15
2618A	H16
3103	N3
5083	N8
5251	N4
5754	
SigmaChip® A6	6026
6063	
6082	H30
7068	AMS 4331
7075	



**Round
Plate
Sheet
Flat
Square Bar
Hexagon
Angle
Tube
Profiles**

Aluminium Tooling Plate <small>related specifications</small>	
ALPLAN®	5000 series
CERTAL®	7000 series
CONTAL®	7000 series
UNIDAL®	7000 series
KASTAL® 100	5000 series
KASTAL® 300	5000 series
ACP 5080R	5000 series
ACP 5080P	5000 series
ACP 5080RS	5000 series



**Full Plates
Sawn Blocks
Profiled Blocks
Rings
Circles**

Aluminium Lithium Alloys <small>related specifications</small>	
2090	
2099	C460
2195	
2199	
2297	
8090	



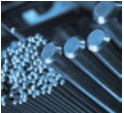
**Round
Plate/Sheet
Profiles**

Aerospace Stainless Steel Bar	
S62	420S37, 1.4014
S80	431S29, 1.4044, AMS 5628
S124	416S37
S130	347S17, AMS 5646
S143	FV 520B
S144	
S145	



**Round
Flat
Square Bar
Hexagon**

Aerospace Steel Bar <small>related specifications</small>	
S82	835M15, EN39B, 1.6722/3
S95	817M40, EN24
S97	826M31, EN25, 1.6743
S98	826M40, EN26, 1.6745
S99	826M40, EN26, 1.6745
S106	722M24, EN40B, 1.7365
S132	897M39, EN40C, 1.8523
S140	826M31, EN25
S154	826M31, EN25, 1.6743
S155	4340M, 300M
S156	835M15, 1.6722/3



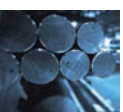
**Round
Flat
Square Bar
Hexagon**

Duplex & Super Duplex Stainless Steel	
UNS S32760	ASTM 182 F55, 1.4501
UNS S31803	ASTM 182 F51, 1.4462
UNS S32750	ASTM 182 F53, 1.4410
FERRINOX®255	UNS S32550, ASTM 182 F61, 1.4507
AMINOX® 255	UNS S32550



**Round
Plate/Sheet
Shapes**

Precipitation Hardening Stainless Steel	
A-286	UNS S66286
13-8 PH	AMS 5929, UNS S13800
15-5 PH	AMS 5659, UNS S15500
15-7 PH	AMS 5528, UNS S15700
17-4 PH	AMS 5643, UNS S17400
17-7 PH	AMS 5528, UNS S17700
S143 FV520B	



**Round
Plate/Sheet
Shapes**

Aerospace Alloy & Stainless Steel Sheet	
S510	EN3A, 1.1151
S511	EN2A
S513	1.1169
S514/S515	EN14A
S525	
S526	
S527	
301	AMS 5517, AMS 5518



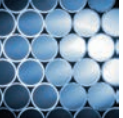
**Sheets
Packs**

Stainless Steels <small>related specifications</small>	
301	1.4310, UNS S30100
302	1.4319, UNS S30200
303	1.4305, UNS S30300
304/304L	1.4301/6, UNS S30400/3
316/316L	1.4401/4, UNS S31600/3
321	1.4541, UNS S32100
347	1.4550, UNS S34700
410	1.4006, UNS S41000
416	1.4005, UNS S41600
430	1.4016, UNS S43000
431	1.4057, UNS S43100
6Mo	1.4547, UNS S31254



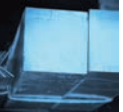
**Round
Plate
Sheet
Flat
Square Bar
Hexagon
Angle
Tube
Wire**

Aerospace Alloy & Stainless Steel Tube	
T45	
T64	
T66	1.4550
T67	1.4541
T72	1.4550
15 CDV 6	1.7734
1020	UNS G10200
4130	708A25, 1.7218
4140	709M40, 1.7225



**Round Tube
Square Tube
Rectangular
Tube
Oval Tube
Aero Tube
Bespoke Tube**

Special Steels <small>related specifications</small>	
15 CDV 6	1.7734/6
16 NCD 13	S157, 1.6657
32 CDV 13	AMS 6481, 1.7765
40 CDV 20	AMS 6437, AMS 6485, 1.7784
4130	AMS 6346
4140	AMS 6382
4330M	
4340	S149, AMS 6322
8740	S147, AMS 6484
9310	S107, AMS 6269
300M	4340VAR



**Round
Plate
Sheet
Flat
Square Bar
Hexagon
Angle
Tube
Wire**

Maraging Steels <small>related specifications</small>	
C200	UNS K92810
C250	S162, UNS K92890, AMS 6512, 1.6359
C300	UNS K93120, AMS 6514 1.6358
C350	UNS K93160



**Round
Plate/Sheet
Shapes**

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