

TECHNICAL SPECIFICATION	TS96™	ISSUE 5
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Recommendations for Similar Metallic Material Specifications and Standards		

NOTE: The issue status of this document remains unchanged as there have been no changes to the technical content.

SAE INDUSTRY TECHNOLOGIES CONSORTIA AEROSPACE STANDARDS AND PART QUALIFICATION PROGRAM

FOREWORD

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TECHNICAL SPECIFICATION

No. TS96

ADS RECOMMENDATIONS FOR SIMILAR METALLIC MATERIAL SPECIFICATIONS & STANDARDS

RATIONALE

Fifth issue of specification.

Revised to add & remove preferred material specifications & standards & to delete Appendix 1.

For full details of changes, refer to supplementary ADS Amendment Record document TS96-AR.

Issued by: **Technical Standards Committee
ADS Group Limited
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ADS Technical Specification No. TS96

ADS RECOMMENDATIONS FOR SIMILAR METALLIC MATERIAL SPECIFICATIONS & STANDARDS

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1. **SCOPE**

This document provides a list of potential alternative metallic material specifications & standards for British Standard (BS) Aerospace & General Engineering & MoD Directorate of Technical Development (DTD). It is not, however, a design document & carries no design authority.

2. **REFERENCED DOCUMENTS**

2.1 **Informative References**

The following documents, in whole or in part, are informatively referenced in this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

TS95	ADS Recommendations for Metallic Material Specifications & Standards to be used for New Designs.
TS260	Metallic Materials - List of Alternative Material Specifications & Standards Only Authorised for Use on ADS Standard Parts.
EN 2032-1	Metallic materials - Part 1: Conventional designation
ESDU 00932	Metallic Materials Data Handbook.

2.2 **Listed Publication bodies**

EN	European Committee for Standardization (CEN). Available from National Standards Bodies e.g. British Standards Institution (BSI).
ESDU	IHS Global Inc.
TS	ADS Group Limited.

3. **INTRODUCTION**

- 3.1 In view of the difficulty in obtaining material supplies for both new & established designs, the ADS Metallic Materials Special Interest Group (MMSIG) was requested to formulate tables of similar materials to provide Potential Alternatives.
- 3.2 The MMSIG is aware that many of the larger Companies already possess lists of alternatives appropriate to their own products, but it is hoped that the Tables will be of help to those smaller manufacturing organisations who do not possess approved Design Teams.
- 3.3 The attached tables are the result of the MMSIG effort, but it is emphasised that considerable care must be taken before any specific substitution is made. In every case, it will be necessary to obtain local design & quality control approval; additionally the concurrence of the prime Contractor may be required.
- 3.4 Before any decision is taken to use an alternative material for a specific part, consideration must be given to all relevant mechanical & metallurgical properties, including:
Strength, Ruling Section & Hardenability, Weldability, Formability, Processing Response.

- 3.5 The ASD-STAN designations quoted are those allocated in accordance with EN 2032-1.
- 3.6 Design properties for some of the materials included in this document are available in ESDU 00932.
- 3.7 A list of preferred specifications for new designs is contained in TS95.
- 3.8 A list of alternative materials for ADS standard parts with design authority for these parts is contained in TS260.
- 3.9 Reference to any EN material standard means the National implementation of that standard e.g. BS EN.
- 3.10 Reference to any prEN material standard means an ASD-STAN Prestandard.

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MATL SPEC REFERENCED	FORM	TABLE	MATL SPEC REFERENCED	FORM	TABLE
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DTD 5232	Bar, Forgings & Forging Stock	3B
DTD 5273	Bar	6B
DTD 5283	Forging Stock	6D
DTD 5289	Castings	4D
DTD 5293	Forgings	6D
DTD 5363	Castings	6C
DTD 5636	Forgings & Forging Stock	1E
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DTD 5639	Bar & Wire for Fasteners	5E

5. BS / DTD SPECIFICATIONS SUPERSEDED BY OTHER BS & DTD SPECIFICATIONS

SUPERSEDED SPECIFICATION	REFER TO		SUPERSEDED SPECIFICATION	REFER TO	
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L 72	L 163, L 164	1A	TA 32	TA 46	6B
L 73	L 165	1A	TA 33	TA 47	6D
L 76	L 103	1E	TA 34	TA 48	6D
L 89	L 166	1A	TA 35	TA 46, TA 49	6B
L 90	L 167	1A	TA 36	TA 47, TA 50	6D
L 104	L 157	1A	TA 37	TA 48, TA 51	6D
L 106	L 156	1A	DTD 1	S 82	3B
L 107	L 164	1A	DTD 2	S 15	3B
L 108	L 166	1A	DTD 3	S 157	3B
L 150	L 157	1A	DTD 4	S 204	3E
L 151	L 164	1A	DTD 5	S 202	3E
L 152	L 165	1A	DTD 7	S 97	3B
L 153	L 164	1A	DTD 8	S 97	3B
L 501	L 512	2B	DTD 10	HR 205	5A
L 502	L 513	2B	DTD 12	S 511	3A
L 506	L 514	2B	DTD 14	B 21	7
L 507	L 515	2B	DTD 18	L 103	1E
S 2	S 95, S 154	3B	DTD 19	S 28	3B
S 3	S 510	3A	DTD 21	S 61	4B
S 4	S 514	3A	DTD 22	S 62	4B
S 6	S 93	3B	DTD 23	DTD 161, DTD 189	4E
S 11	S 95, S 154	3B	DTD 42	S 526, S 527	4A
S 19	S 62	4B	DTD 43	S 129, S 130	4B
S 35	S 1	3B	DTD 49	S 111	3B
S 65	S 97	3B	DTD 57	S 524, S 525	4A
S 69	S 95, S 154	3B	DTD 59	L 121	2A
S 81	S 97	3B	DTD 76	S 80	4B
S 84	S 511	3A	DTD 88	L 513	2B
S 86	S 514	3A	DTD 89	T 45	3C
S 90	S 157	3B	DTD 100	S 514	3A
S 94	S 154	3B	DTD 105	T 80	4C
S 96	S 154	3B	DTD 110	L 37	1G
S 103	S 148	3B	DTD 111	L 163, L 164	1A
S 107	S 157	3B			
S 108	S 125, S 126	4B			
S 109	S 127, S 128	4B			

SUPERSEDED SPECIFICATION	REFER TO		SUPERSEDED SPECIFICATION	REFER TO	
	SPECIFICATION	TABLE		SPECIFICATION	TABLE
DTD 113	T 64	3C	DTD 356	L 157	1A
DTD 124	S 514	3A	DTD 359	T 53, T 77	3C
DTD 126	S 92	3B	DTD 363	L 170	1C
DTD 127	L 512	2B	DTD 364	L 168	1C
DTD 130	L 83	1C, 1E	DTD 390	L 163, L 164	1A
DTD 133	L 51	1F	DTD 408	T 60	3C
DTD 137	S 516	3A	DTD 410	L 83	1C, 1E
DTD 138	S 517	3A	DTD 412	HC 502	7
DTD 141	S 511	3A	DTD 423	L 85	1C, 1E
DTD 144	S 526, S 527	4A	DTD 463	S 80	4B
DTD 148	L 36	1G	DTD 464	L 63	1D
DTD 149	DTD 167	3C	DTD 473	S 98	3B
DTD 156	S 129, S 130	4B	DTD 480	S 95	3B
DTD 166	S 524, S 525	4A	DTD 485	HC 403	
DTD 171	S 526, S 527	4A	DTD 490	S 154	3B
DTD 176	S 129, S 130	4B	DTD 493	S 531	4A
DTD 178	T 53	3C	DTD 498	B 25	7
DTD 187	S 513	3A	DTD 500	S 99	3B
DTD 188	S 114	3B	DTD 504	B 26	7
DTD 197	B 23	7	DTD 519	S 157	3B
DTD 203	T 80	4C	DTD 525	S 124	4B
DTD 207	T 66, T 67	4C	DTD 529	S 125, S 126, S 127, S 128	4B
DTD 209	L 80	1A	DTD 546	L 165	1A
DTD 211	T 68, T 69	4C	DTD 600	S 95	3B
DTD 213	L 59	1A	DTD 603	L 156	1A
DTD 215	S 201	3E	DTD 606	L 81	1A
DTD 233	HC 402	3D	DTD 610	L 164	1A
DTD 239	S 203	3E	DTD 619	L 514	2B
DTD 247	S 131	3B	DTD 622	L 505	2B
DTD 252	L 168	1C	DTD 626	L 504	2B
DTD 254	T 57	3C	DTD 634	L 80	1A
DTD 259	L 512	2B	DTD 646	L 157	1A
DTD 265	B 24	7	DTD 650	S 112	3B
DTD 276	L 78	1F	DTD 653	L 60	1A
DTD 278	L 80	1A	DTD 666	HC 9	3D
DTD 281	L 124	2A	DTD 683	DTD 5024, DTD 5114	1C, 1E
DTD 285	L 125	2A	DTD 687	L 88	1A
DTD 287	L 51	1F	DTD 703	HR 203	5A
DTD 289	L 122	2A	DTD 705	HC 8, HC 10	3D
DTD 292	L 80	1A	DTD 708	L 126	2A
DTD 293	L 83	1C, 1E	DTD 710	L 166	1A
DTD 289	L 122	2A	DTD 712	S 536	4A
DTD 299	S 91	3B	DTD 713	T 79	3C
DTD 303	L 58	1G	DTD 715	S 137	3B
DTD 306	S 106	3B	DTD 719	HC 404	4D
DTD 310	L 56	1D	DTD 721	L 127	2A
DTD 323	B 27	7	DTD 723	T 78	3C
DTD 327	L 86	1G	DTD 726	L 505	2B
DTD 328	HR 208	5A	DTD 729	L 514	2B
DTD 330	DTD 5092, DTD 5102	3B	DTD 730	S 132	3B
DTD 331	S 99	3B	DTD 736	HR 1	5B
DTD 342	L 165	1A	DTD 743	T 72, T 73	4C
DTD 347	T 77	3C	DTD 746	L 167	1A
DTD 348	L 503	2B	DTD 747	HR 2	5B
DTD 351	L 165	1A	DTD 748	L 128	2A

SUPERSEDED SPECIFICATION	REFER TO	
	SPECIFICATION	TABLE
DTD 749	L 512	2B
DTD 5001	L 515	2B
DTD 5002	S 133	3B
DTD 5003	DTD 5273, DTD 5283	6B, 6D
DTD 5006	S 205	4E
DTD 5007	HR 3	5B
DTD 5011	L 508	2B
DTD 5012	S 134	3B
DTD 5016	T 72, T 73	4C
DTD 5017	HR 4	5B
DTD 5019	B 27	7
DTD 5020	L 93	1B
DTD 5021	L 509	2B
DTD 5022	S 135	3B
DTD 5026	HR 650	5E
DTD 5027	HR 202	5A
DTD 5028	L 99	1F
DTD 5033	TA 1	6A
DTD 5046	S 538	4A
DTD 5047	HR 207	5A
DTD 5050	L 95	1B
DTD 5054	DTD 5114	1C
DTD 5060	DTD 5110	1B
DTD 5063	TA 6	6A
DTD 5067	HR 4	5B
DTD 5072	HC 8, HC 10	3D
DTD 5074	L 170	1C
DTD 5076	HR 650	5E
DTD 5077	HR 601	5E
DTD 5080	L 113	1A
DTD 5087	HR 506	5E
DTD 5090	L 97, L 98	1B
DTD 5103	TA 45, TA 46, TA 47, TA 49, TA 50	6B, 6D
DTD 5104	L 171, L 172	1E
DTD 5113	TA 25	6B
DTD 5123	TA 22, TA 23	6B, 6D
DTD 5124	L 170	1C
DTD 5133	TA 21	6A
DTD 5153	TA 48, TA 51	6D
DTD 5163	TA 59, TA 10	6A
DTD 5172	HC 7, HC 9	3D
DTD 5173	TA11, TA12	6B, 6D
DTD 5183	TA 2	6A
DTD 5192	S 163	3B
DTD 5193	TA 6	6A
DTD 5199	HC 1	3D
DTD 5203	TA 38, TA 39, TA 40, TA 41	6D, 6E
DTD 5209	HC 2	3D
DTD 5212	S 162	3B
DTD 5219	HC 3	3D
DTD 5223	TA 42	6D
DTD 5229	HC 4	3D
DTD 5233	TA 52	6A
DTD 5239	HC 5	3D

SUPERSEDED SPECIFICATION	REFER TO	
	SPECIFICATION	TABLE
DTD 5243	TA 53	6B
DTD 5249	HC 6	3D
DTD 5253	TA 54	6D
DTD 5259	HC 103	4D
DTD 5263	TA 55	6D
DTD 5269	HC 104	4D
DTD 5279	HC 105	4D
DTD 5299	HC 101	4D
DTD 5309	HC 102	4D

6. TABLES OF MATERIALS & SPECIFICATIONS

TABLE 1A - ALUMINIUM ALLOY - SHEET & STRIP

SPECIFICATION & DESCRIPTION				SIMILAR SPECIFICATIONS	
				PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	TEMPER	ASD-STAN prEN / EN	USA
L 16	Current	AL-P1200-	H14/H24	3996	AMS 4003
L 17	Current		0	-	AMS 4001
L 59	Withdrawn	AL-P3103-	H16/H26	4004	-
L 60	Withdrawn		H12/H22	-	-
L 61	Withdrawn		0	-	AMS 4006
L 80	Current	AL-P5251-	0	-	-
L 81	Current		H16/H26	-	-
L 88	Withdrawn	AL-P7075- clad	T6/T62	2092	AMS 4049
L 109	Withdrawn	AL-P2024- clad	T3	2090	AMS-QQ-A-250/5 - T3 AMS 4041
L 110	Withdrawn		T42	2703	AMS-QQ-A-250/5 - T42
L 113	Withdrawn	AL-P6082-	T6/T62	4007	-
L 156	Withdrawn	AL-P2014A	T4/T42	2395	-
L 158	Withdrawn		T6/T62	2089	AMS 4029
L 157	Withdrawn		T3	-	-
L 159	Withdrawn		T4/T42	2088	AMS-QQ-A-250/3 - T4/T42
L 163	Withdrawn	AL-P2014A clad	T6/T62	2087	AMS-QQ-A-250/3 - T6/T62
L 164	Current		T3	-	-
L 166	Withdrawn		T4/T42	2088	AMS-QQ-A-250/3 - T4/T42
L 165	Current		T6/T62	2087	AMS-QQ-A-250/3 - T6/T62
L 167	Withdrawn				
DTD 5070	Withdrawn	AL-P2618A clad	T62	3552	-

TABLE 1B - ALUMINIUM ALLOY – PLATE

SPECIFICATION & DESCRIPTION				SIMILAR SPECIFICATIONS	
				PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	TEMPER	ASD-STAN prEN / EN	USA
L 93	Current	AL-P2014A	T651	2124	AMS 4029
DTD 5010	Withdrawn	-	T4	-	-
L 95	Current	AL-P7075-	T651	2126	AMS -QQ-A-250/12 - T651 AMS 4045
L 97	Withdrawn	AL-P2024-	T351	2422	-
L 98	Withdrawn	AL-P2024-	T42	4247	AMS-QQ-A-250/4 - T42
L 115	Withdrawn	AL-P6082-	T651	4202	-
DTD 5030	Withdrawn	AL-P2014A clad	T4	-	-
DTD 5040	Withdrawn		T6	-	-
DTD 5100	Withdrawn	AL-P2024- clad	T351	4211 (T42)	AMS-QQ-A-250/5 - T351 AMS 4034
DTD 5110	Withdrawn	AL-P7075- clad	T6	-	AMS 4049
DTD 5120	Withdrawn	AL-P7010-	T7651	2684	AMS 4204
DTD 5130	Withdrawn		T7451	2687	AMS 4205

TABLE 1C - ALUMINIUM ALLOY - EXTRUDED BAR & SECTION

SPECIFICATION & DESCRIPTION				SIMILAR SPECIFICATIONS		
				PREFERRED	OTHERS	
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	TEMPER	ASD-STAN prEN / EN	USA	
L 34	Current	AL-P1200-	F/O	-	-	
L 44	Withdrawn	AL-P5251-	F/O	-	-	
L 83	Withdrawn	AL-P2031-	T6/T6511	-	-	
L 85	Withdrawn	-	T6/T6511	-	-	
L 87 *	Withdrawn	AL-P2014A	T6	-	-	
L 102	Obsolescent	AL-2014A	T4511	2100	-	
				2634 (PCGC)**	-	
L 168	Current		T6	2324	AMS 4153	
				2639 (PCGC)**	-	
			T6511	2384	-	
				2635 (PCGC)**	-	
L 111	Obsolescent	AL-P6082-	T6	2326	-	
				2636 (PCGC)**	-	
			T6511	4273	-	
4274 (PCGC)**	-					
L 160	Obsolescent		AL-P7075-	T73511	2127	AMS 4617
					2632 (PCGC)**	-
L 170	Current	T6510		2698	AMS 4514	
				2707 (PCGC)**	-	
		T6511		2394	AMS 4514	
				2631 (PCGC)**	-	
DTD 297	Withdrawn	-	O	-	-	
DTD 372	Withdrawn	AL-P6063-	T4	-	-	
DTD 5014	Withdrawn	AL-P2618A	T6511	3553	-	
DTD 5044	Withdrawn	AL-P7014-	T6511	-	-	
DTD 5114	Withdrawn	-	T6/T6511	-	-	

* Hexagonal bar for nuts, couplings & hollow machined parts

** PCGC = Peripheral coarse grain control

TABLE 1D – ALUMINIUM ALLOY TUBE

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	TEMPER	TYPE	ASD-STAN prEN / EN	USA
L 54	Current	AL-P1200-	F	Hydraulic	-	-
L 116	Withdrawn	AL-P99.5	F	Weldable	2073	-
L 56	Current	AL-P5251-	0	Hydraulic	-	AMS 4071 AMS-WW-T-700/4 (non-current) (0)
L 63	Current	AL-P2014A	T8	Structural	2387	-
L 105	Current	AL-P6082-	T3	Structural	3346	-
			T4/42	Structural	2389	-
			T6/T62	Structural	2390	-
L 114	Current					
L 117	Current	AL-P6061-	T6	Structural	2392	AMS 4082 AMS-WW-T-700/6F (T6)
L 118	Current		T6	Hydraulic	2813	AMS 4083 (T6) AMS 4081 (T4)

TABLE 1E - ALUMINIUM ALLOY - FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	TEMPER	PRODUCT FORM	ASD-STAN prEN / EN	USA
L 34	Current	AL-P1200-	F/O	Forgings	-	-
			F	Forging Stock	-	-
L 44	Withdrawn	AL-P5251-	F/O	Forgings	-	-
			F	Forging Stock	-	-
L 83	Withdrawn	AL-P2031-	T6	Forgings	-	-
			F	Forging Stock	-	-
L 85	Withdrawn		T6	Forgings	-	-
			F	Forging Stock	-	-
L 77	Current	AL-P2014A	T6	Forgings	2382	AMS 4133
L 103	Withdrawn		T4	Forgings	2383	AMS 4134
L 77 / L 103	Current / Withdrawn		F	Forging Stock	2485	-
L 112	Current	AL-P6082-	T6	Forgings	-	-
			F	Forging Stock	-	-
L 161	Withdrawn	AL-P7075-	T73	Die forgings	3880	AMS 4141
			T73	Hand forgings	3881	-
L 162	Withdrawn		T7352	Hand forgings	2386	AMS 4147
L 161 / L 162	Withdrawn		F	Forging Stock	2488	AMS 4141
L 171	Current	AL-P7014-	T761	Forgings	-	-
L 172	Current		F	Forging Stock	-	-
DTD 5024	Withdrawn	-	T6	Forgings	-	-
			F	Forging Stock	-	-
DTD 5094	Withdrawn	-	T6	Forgings	-	-
			F	Forging Stock	-	-
DTD 150	Withdrawn	-	T4	Forgings	-	-
DTD 246	Withdrawn	-	T6	Forgings	-	-
			F	Forging Stock	-	-
DTD 297	Withdrawn	-	0	Forgings	-	-
			F	Forging Stock	-	-
DTD 731	Withdrawn	AL-P2618A	T6	Die & Hand forgings	2085	AMS 4132
			F	Forging Stock	2486	
DTD 5004	Withdrawn	-	T6	Forgings	-	-
			F	Forging Stock	-	-
DTD 5636	Withdrawn	AL-P7010-	T74	Die forgings	2681	-
			F	Forging Stock	4287	-

TABLE 1F - ALUMINIUM ALLOY - CASTINGS

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAME	TEMPER	TYPE	PREFERRED	OTHERS
						ASD-STAN prEN / EN	USA
L 51	Withdrawn	-	-	T5	Sand Castings	-	-
					Chill Castings	-	-
L 78	Withdrawn	-	355	T6	Sand Castings	-	AMS 4212
					Chill Castings	-	-
L 119	Current	AL-C21201	RR350	T6	Sand Castings	2725	-
L 154	Current	AL-C21001	-	T4	Sand Castings	2721	-
					Chill Castings	2722	-
L 155	Current	-	-	T6	Sand Castings	2723	-
					Chill Castings	2724	-
L 169	Current	AL-C42201	A357	T6	Sand Castings	2726	AMS 4219
					Chill Castings	2727	
L 99	Current	AL-C42101	A356	T6	Sand Castings	2728	AMS 4218
					Chill Castings	2729	
L 173	Current	-	-	T7	Chill Castings	-	-
L 174	Current	-	-		Sand Castings	-	-
DTD 716	Withdrawn	-	-	F	Sand Castings	-	-
					Chill Castings	-	-
DTD 722	Withdrawn	-	-	T5	Sand Castings	-	-
					Chill Castings	-	-
DTD 727	Withdrawn	-	-	T4	Sand Castings	-	-
					Chill Castings	-	-

TABLE 1F (cont) - ALUMINUM ALLOY - CASTINGS

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAME	TEMPER	TYPE	ASD-STAN prEN / EN	USA
DTD 735	Withdrawn	-	-	T6	Sand Castings	-	-
					Chill Castings	-	-
DTD 5008	Withdrawn	-	D712	T1, T2	Sand Castings	-	-
DTD 5018	Withdrawn	-	-	T4	Sand Castings	-	-
					Chill Castings	-	-

TABLE 1G - ALUMINUM ALLOY - WIRE FOR THE MANUFACTURE OF SOLID, COLD FORGED RIVETS

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	SUPPLY TEMPER	TEST TEMPER	ASD-STAN prEN / EN	USA
L 36	Current	AL-P1050A	F	F	2114	QQ-A-430 1100 (not for new design)
L 37	Current	AL-P2014A	H13	T42	-	-
L 58	Withdrawn	AL-P5056A	0	0	2628	QQ-A-430 5056 (not for new design)
L 86	Withdrawn	AL-P2217-	F	T42	2116	QQ-A-430 2117 (not for new design)

TABLE 2A - MAGNESIUM ALLOY - CASTINGS

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS		
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAME	TEMPER	TYPE	PREFERRED	OTHERS	
						ASD-STAN prEN / EN	USA	
L 121	Withdrawn	MG-C18001	AZ8 AZ81A	F	Sand Castings	-	-	
					Chill Castings	-	-	
L 122	Current			T4	Sand Castings	-	-	
					Chill Castings	-	-	
L 124	Withdrawn	-	AZ91 AZ91A	T4	Sand Castings	-	-	
					Chill Castings	-	-	
L 125	Withdrawn			T6	Sand Castings	-	AMS 4437	
					Chill Castings	-	-	
L 126	Current		MG-058002	ZRE1 EZ33A	T5	Investment Castings	-	AMS 4452
						Sand Castings	2735	AMS 4442
L 127	Withdrawn		MG-C83001	Z5Z ZK51A	T5	Chill Castings	2736	-
						Sand Castings	-	AMS 4443
L 128	Current	MG-C85001	RZ5 ZE41A	T5	Chill Castings	-	-	
					Sand Castings	2738	AMS 4439	
DTD 5005	Withdrawn	MG-058001	ZT1 HZ321A	T5	Chill Castings	2739	-	
					Sand Castings	2733	-	
DTD 5015	Withdrawn	MG-C85002	TZ6 ZH62A	T5	Chill Castings	2734	-	
					Sand Castings	-	-	
DTD 5025	Withdrawn	-	MSR-A	T6	Chill Castings	-	-	
					Sand Castings	-	-	
DTD 5035	Withdrawn	MG-C46001	MSR-B	T6	Chill Castings	2731	-	
					Sand Castings	2732	-	
DTD 5045	Withdrawn	-	ZE63	T6	Chill Castings	-	AMS 4425 (Non current)	
					Sand Castings	-	-	
DTD 5055	Withdrawn	-	QE22A-	T6	Chill Castings	-	AMS 4418	
					Sand Castings	-	-	

TABLE 2B - MAGNESIUM ALLOY – WROUGHT

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAME	TEMPER	TYPE	ASD-STAN prEN / EN	USA
DTD 5111	Withdrawn	-	ZTY	F	Forgings & forging Stock	-	-
DTD 5091	Withdrawn	-	ZM21	0	Sheet & strip	-	-
DTD 5101	Withdrawn			H14	Sheet & strip	-	-
DTD 118	Withdrawn	-	AM503 MIA	F	Sheet & strip	-	-
DTD 142	Withdrawn				Bar & extruded section	-	-
DTD 737	Withdrawn				Tube	-	-
DTD 5041	Withdrawn	-	ZW6	T5	Bar & extruded section	-	-
L 508	Withdrawn	-	ZW1 ZK10	F	Bar & extruded section	-	-
L 509	Withdrawn				Tube	-	-
L 515	Withdrawn				Sheet & strip	-	-
L 503	Withdrawn	Al 6.0 Zn 1.0	AZM AZ61A	F	Tube	-	-
L 512	Withdrawn				Bar & extruded section	-	AMS 4350
L 513	Current				Forgings & forging Stock	-	-
DTD 5081	Withdrawn	Zn 3.0 Zr 0.6	ZW3	F	Plate	-	-
L 504	Withdrawn				Sheet & strip	-	-
L 505	Withdrawn				Bar & extruded section	-	-
L 514	Withdrawn				Forgings & forging Stock	-	-

TABLE 3A - NON-CORROSION RESISTING STEELS - SHEET, STRIP & PLATE

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 510	Current	Carbon steel, weldable	-	Sheet & strip	-	-
S 511	Withdrawn	Deep drawing carbon steel, weldable	-	Sheet & strip	-	-
S 513	Current	Spring steel		Strip	-	-
S 514	Current	C-Mn steel, weldable	-	Sheet & strip	-	-
S 515	Current			Sheet & strip	-	-
S 516	Withdrawn	C-Mn steel, weldable	-	Sheet & strip	-	-
S 517	Withdrawn			Sheet & strip	-	-
S 534	Current	Cr-Mo steel, weldable (4130)	FE-PL1502 (25CrMo4)	Sheet & strip	2209	AMS-S-6758 (non current)
S 535	Current			Sheet & strip	-	-
DTD 5052	Withdrawn	Ni-Cr-Mo-V steel	-	Plate	-	-
DTD 5062	Withdrawn	Mo-B steel, weldable	-	Sheet & strip	-	-
DTD 5112	Withdrawn	1% Cr-Mo steel, weldable	-	Sheet	-	-

TABLE 3B - NON-CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 1	Withdrawn	Carbon steel	-	Bar	-	-
S 14	Withdrawn	Carbon case hardening steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 15	Withdrawn	3% Ni case hardening steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 21	Withdrawn	'20' carbon steel, weldable	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 28	Withdrawn	4% Ni-Cr-Mo steel (air hardening)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 70	Withdrawn	'55' carbon steel (normalized)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 79	Withdrawn	'55' carbon steel (hardened & tempered)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 82	Current	4% Ni-Cr-Mo case hardening steel	FE-PL2110 (16NiCrMo16)	Bar	2767	-
				Forgings	2768	-
				Forging Stock	3522	-
S 91	Withdrawn	Mild steel (suitable for bearing shells)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 92	Current	C-Mn steel, weldable	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 93	Current	'40' carbon steel (normalized)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 95	Withdrawn	1½ % Ni-Cr-Mo Steel (4340)	-	Bar	3519	AMS 6415
				Forgings	2455	
				Forging Stock	3520	

TABLE 3B (cont) - NON-CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 97	Withdrawn	2½ % Ni-Cr-Mo steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 98	Current	2½ % Ni-Cr-Mo steel (high carbon)(4340)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 99	Current	2½ % Ni-Cr-Mo steel (high carbon)(4340)	-	Bar	-	AMS 6415
				Forgings	-	
				Forging Stock	-	
S 102	Current	C-Mo steel (manufacture of forged bolts only)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 105	Withdrawn	Carbon steel (manufacture of forged bolts only)	-	Bar	-	-
				Forging Stock	-	-
S 106	Current	3% Cr-Mo nitriding steel	-	Bar	-	AMS 6475
				Forging Stock	-	
S 111	Withdrawn	Ni-Cr-W valve steel	-	Forgings	-	-
				Forging Stock	--	-
S 112	Withdrawn	Semi-free cutting carbon steel (primarily intended for manufacture of forged nuts)	-	Bar	-	-
S 113	Withdrawn	'40' carbon steel (primarily intended for manufacture of forged nuts)	-	Bar	-	-
S 114	Withdrawn	Mn-Mo steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-

TABLE 3B (cont) - NON-CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 116	Withdrawn	'40' carbon steel (primarily intended for manufacture of machined bolts)	-	Bar	-	-
S117	Withdrawn	1% Cr steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 119	Withdrawn	1½ % Ni-Cr-Mo steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 120	Withdrawn	2½ % Ni-Cr-Mo steel (oil hardening)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 131	Current	High thermal expansion steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 132	Current	3% Cr-Mo-V nitriding steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 133	Withdrawn	¾% Ni-Cr case hardening steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 134	Current	3% Cr-Mo-V steel (air hardening)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 135	Current	1% C-Cr steel, suitable for bearings (52100)	FE-PL1801 (100Cr6)	Bar	2031	AMS 6440
				Forgings	2222	
				Forging Stock	-	
S 136	Current	1% C-Cr steel (vacuum arc remelted), suitable for bearings (52100 VAR)	FE-PL1802 (100Cr6)	Bar	3511	AMS 6444
				Forgings	2225	
				Forging Stock	-	

TABLE 3B (cont) - NON-CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 137	Withdrawn	High Cr-Ni free machining steel	-	Bar	-	-
S 138	Withdrawn	3% Cr-Mo-V steel (vacuum remelted air hardening)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 139	Withdrawn	1½ Ni-Cr-Mo steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 140	Current	2½ % Ni-Cr-Mo steel	FE-PL2105 (31NiCrMo10)	Bar	3517	-
				Forgings	3518	-
				Forging Stock	3520	-
S 142	Current	1% Cr-Mo steel (4130)	FE-PL1502 (25CrMo4)	Bar	2205	AMS 6370
S 164	Current			Forgings	2207	
				Forging Stock	-	
S 146	Current	4% Ni-Cr-Mo air hardening steel (vacuum arc remelted)	FE-PL2109 (36NiCrMo16)	Bar	2760	-
				Forgings	2761	-
				Forging Stock	-	-
S 147	Current	½ % Ni-Cr-Mo steel (manufacture of forged bolts & forged nuts)	-	Bar	-	-
				Forging Stock	-	-
S 148	Current	Low Ni-Cr steel (manufacture of forged bolts only)	-	Bar	-	-
				Forging Stock	-	-
S 149	Current	1¾ % Ni-Cr-Mo steel (manufacture of forged bolts & forged nuts)	-	Bar	-	-
				Forging Stock	-	-
S 153	Current	2½ % Ni-Cr-Mo steel	FE-PL2105 (31NiCrMo10)	Bar	2450	-
				Forgings	2451	-
				Forging Stock	3520	-

TABLE 3B (cont) - NON-CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 154	Current	2½ % Ni-Cr-Mo steel	FE-PL2105 (31NiCrMo10)	Bar	3519	-
				Forgings	2455	-
				Forging Stock	3520	-
S 155	Current	Ni-Si-Cr-Mo-V steel (vacuum arc remelted) (300M)	FE-PL2111 (43NiSiCrMoV7)	Bar	2762	AMS 6414 AMS 6419 AMS 6257
				Forgings	2759	
				Forging Stock	-	
S 156	Current	4% Ni-Cr-Mo case hardening steel (vacuum arc remelted)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 157	Current	3% Ni-Cr-Mo case hardening steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 158	Current	1% Cr-Mo steel (manufacture of forged bolts & forged nuts)	-	Bar	-	-
				Forging Stock	-	-
S 162	Current	18% Ni-Co-Mo maraging steel (double vacuum melted) (Maraging 250 G110)	FE-PM2701 (X1NiCoMoTiAl 18-5)	Bar	3528	AMS 6512
				Forgings	3529	
				Forging Stock	3530	
DTD 5232	Withdrawn	18% Ni-Co-Mo maraging steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 163	Current	Ni-Cr-Mo-V steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
DTD 5222	Withdrawn	5% Cr-Mo-V steel (vacuum remelted)	FE-PM1501 (40CrMoV20)	Bar	2269	-
				Forgings	2271	-
				Forging Stock	-	-

TABLE 3C - NON-CORROSION RESISTING STEELS – TUBE

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	TYPE	PREFERRED	OTHERS
					ASD-STAN prEN / EN	USA
T 2	Withdrawn	4/1 Ni-Cr steel	-	-	-	-
T 57	Withdrawn		-	-	-	-
T 45	Withdrawn	C-Mn steel, weldable	-	-	-	-
T 64	Withdrawn		-	-	-	-
T 53	Current	Cr-Mo steel, Weldable (4130)	FE-PL1502 (25CrMo4)	-	2247	AMS 6361 AMS 6362
T 60	Current			-	-	
T 76	Current			-	-	
T 77	Current			-	2211	
T 78	Current	2% Ni-Cr-Mo steel	-	-	-	-
T 79	Current		-	-	-	-
DTD 167	Withdrawn	Cr-Mo steel	-	-	-	-
DTD 503	Withdrawn	C-Mn steel	-	Hydraulic	-	-
DTD 740	Withdrawn	Mo-B steel, weldable	-	-	-	-
DTD 5132	Withdrawn	1% Cr-Mo steel, weldable	-	-	-	-
DTD 5142	Withdrawn		-	-	-	-

TABLE 3D - NON-CORROSION RESISTING STEELS - CASTINGS & REMELTING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	PREFERRED	OTHERS
					ASD-STAN prEN / EN	USA
HC 1	Withdrawn	Carbon steel	--	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 2	Withdrawn	C-Mn steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings.	-	-
				Remelting Stock	-	-

TABLE 3D (cont) - NON-CORROSION RESISTING STEELS - CASTINGS & REMELTING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
HC 3	Withdrawn	1% Cr-Mo low alloy steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 4	Withdrawn	3% Cr-Mo steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 5	Withdrawn	3% Ni case hardening steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Remelting Stock	-	-
HC 6	Withdrawn	3% Cr-Mo nitriding steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Remelting Stock	-	-
HC 7	Current	3% Cr-Mo steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 8	Current	3% Cr-Mo steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings.	-	-
				Remelting Stock	-	-

TABLE 3D (cont) - NON-CORROSION RESISTING STEELS - CASTINGS & REMELTING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
HC 9	Current	Ni-Cr-Mo steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 10	Current	Ni-Cr-Mo steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 401	Current	18% Ni Maraging steel	-	Precision Castings	-	-
				Remelting Stock	-	-
HC 402	Withdrawn	Cast iron	-	Centrifugal Castings	-	-
HC 403	Withdrawn	High Cr cast iron	-	Centrifugal Castings	-	-

TABLE 3E - NON-CORROSION RESISTING STEELS - ROD, WIRE & SPRINGS

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 201	Current	Cold drawn carbon steel	-	Wire & Springs (high duty unground wire)	-	-
S 202	Current	Cold drawn carbon steel	-	Wire & Springs (high duty ground wire)	-	-
S 203	Current	Carbon steel	-	Wire & Springs (high duty unground wire)	-	-
S 204	Current	Cr-V steel	-	Wire & Springs (high duty ground wire)	-	-
DTD 720	Withdrawn	'15' carbon steel	-	Rod & Wire (suitable for blind rivets)	-	-
DTD 5152	Withdrawn	1% Cr-Mo steel	-	Wire (suitable for use as filler material)	-	-

TABLE 4A - CORROSION RESISTING STEELS – SHEET & STRIP

SPECIFICATION & DESCRIPTION				SIMILAR SPECIFICATIONS	
				PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	ASD-STAN prEN / EN	USA
S 524	Current	Cold rolled 18/10 Cr-Ni steel, Ti stabilized (30321)	FE-PA3601 (X6CrNiTi18-10)	3816	-
S 526	Current	18/10 Cr-Ni steel, Ti stabilized (30321)		3488	AMS 5510
S 525	Current	Cold rolled 18/10 Cr-Ni steel, Nb stabilized (30347)	-	-	-
S 527	Current	18/10 Cr-Ni steel, Nb stabilized (30347)	-	-	AMS 5512
S 528	Withdrawn	23/14 Cr-Ni steel, Ti stabilized	-	-	-
S 529	Withdrawn	23/14 Cr-Ni steel, Nb stabilized	-	-	-
S 530	Current	24/17 Cr-Ni steel, Ti stabilized	-	-	-
S 531	Withdrawn	24/17 Cr-Ni steel, Nb stabilized	-	-	-
S 532	Current	Cr-Ni-Cu-Mo precipitation hardening steel (FV520S)	-	-	-
S 533	Current		-	-	-
S 536	Current	Low carbon 18/10 Cr-Ni steel (30304L)	FE-PA3901 (X2CrNi19-11)	2467	AMS 5511
S 537	Current	Low carbon 17/12 Cr-Ni-Mo steel (30316L)	-	-	AMS 5507
S 538	Current	Cr-Ni-Mo-V steel (Jethete M152, FV566)	FE-PM1502 (X11CrNiMoVN12-3)	2280	-

TABLE 4B - CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 61	Withdrawn	12% Cr steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 62	Withdrawn	12% Cr steel	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 80	Current	16% Cr-2.5%Ni Steel (51431)	FE-PM3901 (X15CrNi17-3)	Bar	3490	AMS 5628 MIL-S-18732 (Not for new design)
				Forgings	3491	
				Forging Stock	-	
S 124	Withdrawn	12% Cr steel, free machining (51416)	-	Bar	-	AMS 5610
				Forgings	-	
				Forging Stock	-	
S 125	Withdrawn	23/14 Cr-Ni steel, Ti stabilized	-	Bar	-	-
				Forgings	-	
				Forging Stock	-	
S 126	Withdrawn	23/14 Cr-Ni steel, Nb stabilized	-	Bar	-	-
				Forgings	-	
				Forging Stock	-	
S 127	Withdrawn	24/17 Cr-Ni steel Ti stabilized	-	Bar	-	-
				Forgings	-	
				Forging Stock	-	
S 128	Withdrawn	24/17 Cr-Ni steel Nb stabilized	-	Bar	-	-
				Forgings	-	
				Forging Stock	-	
S 129	Current	18/9 Cr-Ni steel Ti stabilized (30321)	FE-PA3601 (X6CrNiTi18-10)	Bar	-	AMS 5645
				Forgings	-	
				Forging Stock	--	
S 130	Current	18/9 Cr-Ni steel Nb stabilized (30347)	-	Bar	-	AMS 5646
				Forgings	-	
				Forging Stock	-	
S 141	Withdrawn	12% Cr steel	-	Bar	-	-
				Forgings	-	
				Forging Stock	-	

TABLE 4B (cont) - CORROSION RESISTING STEELS - BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 143	Current	Cr-Ni-Cu-Mo precipitation hardening steel (FV520B)	FE-PM1801 (X5CrNiMoCu Nb14-5)	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 144	Current			Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 145	Current			Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 150	Current	Cr-Mo-V-Nb Steel (FV448)	-	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-
S 151	Current	Cr-Ni-Mo-V steel (JETHETE M152 Bar) (FV566 Forging Stock)	FE-PM1502 (X11CrNiMoVN 12-3)	Bar	-	AMS 5719
				Forgings	-	
				Forging Stock	-	
S 152	Current	Cr-Co-Mo-V-Nb steel (consumable electrode remelted) (FV535)	FE-PM1708 (X9CrCoMo1)	Bar	4244	-
				Forgings	2494	-
				Forging Stock	4245	-
S 159	Current	12%Cr-Ni-Mo-V steel (suitable for the manufacture of fasteners) (FV566)	-	Bar	-	-
				Forging Stock	-	
S 160	Current	Cr-Ni steel (controlled nitrogen content)	-	Bar	-	-
S 161	Current	Cr-Ni-Mo steel (controlled nitrogen content)	-	Bar	-	-

TABLE 4C – CORROSION RESISTING STEELS – TUBE

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
T 66	Current	18/10 Cr-Ni steel, Nb stabilized (30347)	FE-PA3701	Weldable	-	AMS 5571
T 72	Current			Hydraulic	-	AMS 5556 Seamless
T 68	Current			Cold drawn 18/10 Cr-Ni steel, Nb stabilized	Structural	-
T 67	Withdrawn	18/10 Cr-Ni steel, Ti stabilized (30321)	FE-PA3601 (X6CrNiTi18-10)	Weldable	3489	AMS 5570
T 73	Current			Hydraulic	3680	AMS 5557 Seamless
T 69	Withdrawn	Cold drawn 18/10 Cr-Ni steel, Ti stabilized (30321)		Structural	-	AMS 5896
T 74	Withdrawn	Low carbon 18/10 Cr-Ni steel (30304L)	FE-PA3901 (X2CrNi19-11)	Weldable	2468	AMS 5647
T 75	Withdrawn	Low carbon 17/12 Cr-Ni-Mo steel (30316L)	-	Weldable	-	AMS 5653
T 80	Current	12% Cr steel	-	-	-	-

TABLE 4D – CORROSION RESISTING STEELS – CASTINGS & REMELTING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
HC 101	Current	Cr-Ni-Cu-Mo precipitation hardening steel (FV520)	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 102	Current	Cr-Ni-Cu-Mo precipitation hardening steel (FV520)	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 103	Current	23% Cr-Ni-W Steel (H.R. CROWN MAX 30309)	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 104	Current	19% Cr-10% Ni steel, Nb stabilized (30347)	FE-CM3901 (X8CrNiNb19-11)	Precision Castings	3363	-
				Sand Castings		
				Centrifugal Castings	-	-
				Remelting Stock	3366	-
HC 105	Current	18% Cr-11% Ni -2.5% Mo steel, Nb stabilized	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 106	Current	Cr-Ni-Cu precipitation hardening steel	-	Precision Castings	-	-
				Sand Castings	-	-
				Centrifugal Castings	-	-
				Remelting Stock	-	-
HC 404	Withdrawn	Cr-Mo cast iron	-	Sand Castings	-	-
				Centrifugal Castings	-	-
DTD 5289	Withdrawn	Cr-Ni-3½ % Mo steel	-	Investment Castings	-	-

TABLE 4E – CORROSION RESISTING STEELS – ROD, WIRE & SPRINGS

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	PRODUCT FORM	ASD-STAN prEN / EN	USA
S 205	Current	Austenitic Cr-Ni steel	-	Wire & Springs	2541	-
S 206	Current	17/7 Cr-Ni precipitation hardening steel	-	Rod, Wire & Springs	-	-
DTD 161	Withdrawn	12% Cr steel	-	Rod & Wire (suitable for locking wire)	-	-
DTD 189	Withdrawn	Cr-Ni steel	FE-PA3601 (X6CrNiTi18-10)	Wire, Rivets & Split Pins (suitable for locking wire)	2573	-
DTD 271	Withdrawn	12% Cr steel	-	Strip (suitable for magneto-breaker springs)	-	-
DTD 5036	Withdrawn	Low carbon Cr-Ni steel, weldable	FE-PA3901 (X1CrNi18-10)	Wire, Rivets & Split Pins	2469 2470	-

TABLE 5A – HEAT RESISTING ALLOYS – SHEET, STRIP & PLATE

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
HR 201	Current	NI-PH8701 (NiCr20TiAl)	Nimonic 80A	Sheet, Strip & Plate	2191	-
HR 202	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	Sheet & Strip	2298	-
HR 203	Current	NI-PH1201 (NiCr20Ti)	Nimonic 75	Sheet & Strip	2302	-
				Plate	2411	-
HR 204	Current	NI-PH2301 (NiCr21Fe18Mo9)	Hastelloy X	Sheet, Strip & Plate	2185	AMS 5536
HR 205	Current	NI-PD9001 (NiCu31)	Monel 400	Sheet & Strip	-	AMS 4544
HR 206	Current	NI-PH1303 (NiCr20Co13Mo4Ti3Al)	Nimonic 263	Sheet & Strip	2203	AMS 5872
				Plate	2418	
HR 207	Current	-	Nimonic PE16	Sheet & Strip	-	-
				Plate	-	-
HR 208	Current	-	Inconel 600	Sheet & Strip	-	AMS 5540
				Plate	-	
HR 209	Current	-	Nimonic PK33	Sheet & Strip	-	-
				Plate	-	-
HR 240	Current	CO-PH4101 (CoCr20W15Ni)	HS25/L605	Sheet & Strip	4568	AMS 5537

TABLE 5B – HEAT RESISTING ALLOYS – BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
HR 1	Current	NI-PH8701 (NiCr20TiAl)	Nimonic 80A Rex 664	Bar	2188	-
				Forgings	2189	-
				Forging Stock	-	-
HR 2	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90 Rex 670	Bar	2295	-
				Forgings	2296	-
				Forging Stock	-	-
HR 3	Current	NI-PD1301 (NiCo20Cr15Mo5A15Ti)	Nimonic 105	Bar	2179	-
				Forgings	2180	-
				Forging Stock	-	-
HR 4	Current	NI-PH1701 (NiCr15Co14A15Ti4Mo4)	Nimonic 115	Bar	4369	-
				Forgings	2197	-
				Forging Stock	4370	-
HR 5	Current	NI-PH1201 (NiCr20Ti)	Nimonic 75 Rex 724	Bar	2306	-
				Forgings	2307	-
				Forging Stock	2308	-
HR 6	Current	NI-PH2301 (NiCr21Fe18Mo9)	Hastelloy X Inco HX	Bar	2184	AMS 5754
				Forgings	2183	
				Forging Stock	3668	
HR 10	Current	NI-PH1303 (NiCo20Cr20Mo5Ti2Al)	Nimonic 263 Rex 736	Bar	2199	AMS 5886
				Forgings	2200	
				Forging Stock	2201	
HR 40	Current	CO-PH4101 (CoCr20W15Ni)	HS25 / L605	Bar	4567	AMS 5759
				Forgings	4566	
				Forging Stock	4246	
HR 51	Current	FE-PA2601 (X6NiCrTiMoV26-15)	A286 Rex 559	Bar	4318	AMS 5731
				Forgings	2172	
				Forging Stock	-	AMS 5732

TABLE 5B (cont) – HEAT RESISTING ALLOYS – BAR, FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
HR 52	Current	FE-PA2602 (X4NiCrTiMoV26-15)	A286 (low Ti)	Bar	3510	-
				Forgings	2174	-
				Forging Stock	4314	-
HR 53	Current	FE-PA2501 (X4NiCrMoTi43-13)	Nimonic 901 Incoloy 901 Rex 688	Bar	2178	AMS 5660
				Forgings	2177	
				Forging Stock	-	
HR 55	Current	-	Nimonic PE16	Bar	-	-
				Forgings	-	-
				Forging Stock	-	-

TABLE 5C – HEAT RESISTING ALLOYS – TUBE

SPECIFICATION & DESCRIPTION				SIMILAR SPECIFICATIONS	
				PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	ASD-STAN prEN / EN	USA
HR 401	Current	NI-PH8701 (NiCr20TiAl)	Nimonic 80A	-	-
HR 402	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	2299	-
HR 403	Current	NI-PH1201 (NiCr20Ti)	Nimonic 75	2294	-
HR 404	Current	NI-PH1303 (NiCo20Cr20Mo5Ti2Al)	Nimonic 263	2202	-

TABLE 5D – HEAT RESISTING ALLOYS – CASTINGS & REMELTING STOCK

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
HC 202	Current	NI-CH6301 (NiCr20Nb7Mo6W)	PE10	Precision Castings	2198	-
				Remelting Stock	-	-
HC 203	Current	NI-CD7301 (NiCr13Al6Mo5Nb)	Inconel 713 Nimocast 713C	Precision Castings	2192	AMS 5391
				Remelting Stock	-	
HC 204	Current	NI-CD1701 (NiCo15Cr10Al6Ti5Mo3)	Inconel 100	Precision Castings	2233	AMS 5397
				Remelting Stock	4368	
HC 205	Current	NI-CH1303 (NiCo20Cr20Mo5Ti2Al)	Nimonic 263 C263	Precision Castings	2204	-
				Centrifugal Castings	-	-
				Remelting Stock	4384	-
HC 206	Current	NI-CI-11303 (NiCo20Cr20Mo5Ti2Al)	Nimonic 263 C263	Precision Castings	2204	-
				Remelting Stock	4384	-
HC 207	Current	NI-CD1401 (NiCo10W10Cr9Al6Ta3)	MAR M002	Precision Castings	4097	-
				Remelting Stock	4096	-
HC 208	Current	-	MAR M246	Precision Castings	-	-
				Remelting Stock	-	-
HC 209	Current	-	Nimocast 713LC	Precision Castings	-	-
				Remelting Stock	-	-
HC 210	Current	-	Nimocast PD21	Precision Castings	-	-
				Remelting Stock	-	-
HC 211	Current	NI-CH1305 (NiCr16Co10Mo8Al4Ti4)	Nimonic 1023 C1023	Precision Castings	4095	-
				Remelting Stock	4094	-
HC 301	Current	CO-CH1401 (CoCr22NiW)	HS31 Stellite 31	Precision Castings	2161	AMS 5382
				Remelting Stock	2660	

TABLE 5E – HEAT RESISTING ALLOYS – BAR / WIRE FOR SPRINGS & FASTENERS

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
HR 501	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	Wire for Springs	-	-
HR 502	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	Wire for Springs	2401	-
HR 503	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	Wire for Thread Inserts	-	-
HR 504	Current	NI-PH1201 (NiCr20Ti)	Nimonic 75	Bar & wire for fasteners	2402	-
HR 505	Current	-	Inconel X750	Wire for thread inserts	-	AMS 5698 AMS 5699
HR 506	Current	NI-PH1801 (NiCr20Co18Ti)	Nimonic 90	Wire for Locking	-	-
HR 601	Current	NI-PH8701 (NiCr20TiAl)	Nimonic 80A	Bar & Wire for Fasteners	-	-
HR 650	Current	FE-PA2601 (X6NiCrTiMoV26-15)	A286	Bar & Wire for Fasteners	-	AMS 5732
DTD 5638	Withdrawn	NI-PH2601 (NiCr19Fe19Nb5Mo3)	Inconel 718	Bar & Wire for Fasteners	2952	AMS 5662 AMS 5663
					2961	
					3219	
DTD 5639	Withdrawn	NI-PH1302 (NiCr20Co13Mo4Ti3Al)	Waspaloy	Bar & Wire for Fasteners	2959	AMS 5707
					2960	
					3220	

TABLE 6A - TITANIUM ALLOYS - SHEET, STRIP & PLATE

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
TA 1	Current	CP	TI-P99001	Timetal 35A	Sheet & Strip	3441 (HR)	AMS 4940
						3497 (CR)	
TA 2	Current	-	TI-P99002	Timetal 50A	Sheet & Strip	3442 (HR)	AMS 4902
						3498 (CR)	
TA 6	Current	-	TI-P99003	Timetal 75A	Sheet & Strip	3443 (HR)	AMS 4901
						3499 (CR)	
DTD 5023	Withdrawn	-	-	Ti metal 65A	Sheet & Strip	-	AMS 4900
TA 10	Current	Ti 6Al-4V	TI-P64001	Timetal 6-4	Sheet	-	-
TA 56	Current				Plate	3464	AMS 4911
TA 59	Current				Sheet & Strip	3456	AMS 4911
TA 21	Current	Ti 2.5Cu	TI-P19001	Timetal 230	Sheet & Strip	3859 (HR)	-
						3860 (CR)	-
TA 52	Current				Sheet & Strip	3870 (HR)	-
TA 58	Current	-	-	-	Plate	3871 (CR)	-
						-	-
TA 57	Current	Ti 4Al-4Mo-2Sn-0.5Si	TI-P63001	Timetal 550	Plate	3459	-

CP = Commercially pure

CR = Cold rolled

HR = Hot rolled

TABLE 6B - TITANIUM ALLOYS - BAR, SECTION & WIRE FOR FASTENERS

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
DTD 5013	Withdrawn	CP	-	Timetal 35A	Bar	-	-
					Section	-	-
TA 3	Withdrawn	-	TI-P99002	Timetal 50A	Bar	3460	-
					Section	-	-
DTD 5273	Withdrawn	-	-	Timetal 65A	Bar	-	-
TA 7	Current	-	TI-P99003	Timetal 100A	Bar	3461	AMS 4921
					Section	-	
TA 11	Current	Ti 6Al-4V	TI-P64001	Timetal 6-4	Bar	3311	AMS 4928
Section					3355		
TA 28					Wire for Fasteners	3813	AMS 4965 AMS 6930
TA 22	Withdrawn	Ti 2.5Cu	TI-P19001	Timetal 230	Bar	3462	-
TA 53					Section	-	-
					Bar	3463	-
					Section	-	-
TA 25	Withdrawn	Ti 11Sn-5Zr-2.2Al-1Mo-0.2Si-	-	Timetal 679	Bar	-	-
TA 38	Current	Ti 4Al-4Mo-4Sn-0.5Si-0.1C	-	Timetal 551	Bar	-	-
TA 40	Current				Bar	-	-
TA 45	Current	Ti 4Al-4Mo-2Sn-0.5Si	TI-P63001	Timetal 550	Bar	3466	-
TA 46	Current				Section	-	-
					Bar	3466	-
					Section	-	-
TA 49	Current				Bar	3466	-
		Section	-	-			

CP = Commercially pure

TABLE 6C - TITANIUM ALLOYS - TUBE & CASTINGS

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
DTD 5073	Withdrawn	CP	-	Timetal 65A	Tube	-	AMS 4942
DTD 5363	Withdrawn	Ti 6Al-4V	TI-C64001	Timetal 6-4	Castings	3352	AMS 4985 AMS 4991

TABLE 6D - TITANIUM ALLOYS - FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
TA 4	Withdrawn	CP	TI-P99002	Timetal 50A	Forging Stock	3451	-
TA 5	Withdrawn				Forging	3452	-
DTD 5283	Withdrawn		-	Timetal 65A	Forging Stock	-	-
DTD 5293	Withdrawn				Forgings	-	-
TA 8	Withdrawn		TI-P99003	Timetal 100A	Forging Stock	3453	AMS 4921
TA 9	Withdrawn				Forgings	3496	AMS 4921
TA 12	Withdrawn	Ti 6Al-4V	TI-P64001	Timetal 6-4	Forging Stock	3310	AMS 4928 AMS 6930
TA 13	Withdrawn				Forgings	3312	AMS 6931
TA 23	Withdrawn	Ti 2.5Cu	TI-P19001	Timetal 230	Forging Stock	3454	-
TA 24	Withdrawn				Forgings	3495	-
TA 54	Withdrawn				Forging Stock	3455	-
TA 55	Withdrawn				Forgings	3494	-
TA 26	Withdrawn	Ti 11Sn-5Zr-2.2Al-1Mo-0.2Si	-	Timetal 679	Forging Stock	-	-
TA 27	Withdrawn				Forgings	-	-

CP = Commercially pure

TABLE 6D (cont) - TITANIUM ALLOYS - FORGINGS & FORGING STOCK

SPECIFICATION & DESCRIPTION						SIMILAR SPECIFICATIONS	
						PREFERRED	OTHERS
BS / DTD	STATUS	ALLOY	ASD-STAN ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
TA 39	Current	Ti 4Al-4Mo-4Sn-0.5Si-0.1C	-	Timetal 551	Forging Stock	-	-
TA 41	Current					-	-
TA 42	Current				Forgings	-	-
TA 43	Withdrawn	Ti 6Al-5Zr 0.5Mo-0.25Si	TI-P65001	Timetal 685	Forging Stock	3321	-
TA 44	Withdrawn				Forgings	3322	-
TA 47	Current	Ti 4Al-4Mo-2Sn-0.5Si	TI-P63001	Timetal 550	Forging Stock	3465	-
TA 50	Current						
TA 48	Withdrawn				Forgings	3351	-
TA 51	Withdrawn						

TABLE 7 - COPPER ALLOYS

SPECIFICATION & DESCRIPTION					SIMILAR SPECIFICATIONS	
					PREFERRED	OTHERS
BS / DTD	STATUS	ISO ALLOY DESIGNATION	COMMON NAMES	PRODUCT FORM	ASD-STAN prEN / EN	USA
B 8	Withdrawn	Cu Sn10	Phosphor bronze	Castings	-	-
B 21	Withdrawn	-	White metal	Ingots	-	-
B 23	Current	Cu Al10 Ni5 Fe4	Aluminium bronze C63200	Rod	-	AMS 4640 AMS 4880
				Section	-	
				Forgings	-	
				Forging Stock	-	
B 24	Current	Cu Sn8	Phosphor bronze	Rod	-	-
				Section	-	-
B 25	Current	Cu Ni3 Si	-	Rod	-	-
				Section	-	-
				Forgings	-	-
				Forging Stock	-	-
B 26	Current			Rod	-	-
				Section	-	-
B 27	Current	Cu Zn14 Al1 Ni1 Si1	Tungum	Tube - hydraulic	-	-
DTD 253	Withdrawn			Tube	-	-
DTD 319	Withdrawn			Rod	-	-
B 28	Current	Cu Be1.9	Beryllium copper BERYLCO 25 C17200	Strip & Foil	-	AMS 4530
B 29	Current			Strip & Foil	-	-
B 30	Current			Strip & Foil	-	AMS 4532
B 31	Current			Strip & Foil	-	-
B 32	Current			Rod & Section	-	AMS 4533 AMS 4650
B 33	Current			Wire & Springs	-	-
HC 502	Current	Cu Al9.5 Ni5 Fe5	Aluminium bronze C95500	Castings	-	-
T 51	Withdrawn	Cu	Copper	Tube - high pressure	-	-