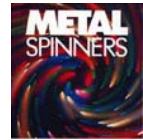


GE specifications				An asterisk denotes a change since last notice	
Book 1					
Specification	Rev.	Amend	CID	Description	
P1TF1	S13		076146	Supplier nonconforming material: review and disposition	
P1TF3	S34			DRAWING INTERPRETATION	
P1TF9	S14		079296	MACHINE FEATURES	
P1TF10	S14		078144	SHEET METAL PARTS	
P1TF11	S6		078212	Cast & Forged part-Shop run tolerances	
P1TF18	S9	2	078577	Fastener installation and acceptability limits	
P1TF19	S9	3	74995	General Requirements spec for engineering master drawing	
P1TF35	S8		076146	Supplier Quality System Requirements	
P1TF52	S11		078414	Electronic Data	
P1TF51	S28			General spec for mfg of support equipment	*
P1TF55	12			General Specification for Manufacture of support equipment	*
P1TF85	S4			Unigraphics Master Models	
P1TF87	S1			Interpretation of Unigraphics Tube Master Models	
P1TF94	S5			Source requirements for us army flight safety parts program	
P1TF98	S1			Chemical milling for final dimensions	
P1TF101	S5			Machined Features	
P1TF108	S4			Interpretation of Drawing	*
P2TF1	S2		078137	Regulated materials, environmental, health and safety	
P3TF2	S29			FLUORESCENT PENETRANT INSP.	
P3TF5	S15			Radiographic inspection	*
P3TF6	S4		076716	High resolution Penetrant inspection	
P3TF9	S9			Magnetic Particle Inspection (MPI)	
P3TF16	S11		079243	EDDY CURRENT INSPECTION OF BEARING BALLS	*
P3TF19	S3			Examination of Wrought titanium alloys for alpha case	
P3TF47	S5			Fluorescent Penetrant Inspection	
P3TF48	S3		078882	Magnetic Particle Inspection (MPI)	

This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".

If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.



Book 2				
Specification	Rev.	Amend	CID	Description
P4TF3	S12		079738	Cleaning of Titanium *
P4TF8	S11			Swab etching
P4TF21	S2			CLEANING REQUIREMENTS FOR OIL WETTED AND SUMP...
P8TF1	S6			Electron Beam Welding
P8TF2	S8		076257	Inertia Welding
P8TF3	S20			GAS SHIELDED ARC WELDING
P8TF4	S9			RESISTANCE SPOT WELDING
P8TF5	S12			Electron Beam Fusion welding
P8TF10	S9			Electron beam welding
P8TF11	S5			GAS TUNGSTEN ARC WELDING
P9TF1	S14			BRAZING REQUIREMENTS
P10TF1	S8			VACUUM HEAT TREATING
P10TF3	S2			Furnace heat treating and furnace brazing
P10TF4	S1			Heat treatment of nickel, cobalt, iron and titanium alloy parts
P11TF1	S5		078477	MALCOMIZING
P12TF2	S15			Torque values assembly of fluid fittings and screw thread fastener
P12TF24	S9	1	078577	Installation of key type inserts and studs
P16TF5	S8			Thermal Spraying *
P17TF2	S3			Laser Machining
P23TF3	S40		079382	IDENTIFICATION MARKING *
P23TF4	S4			REVISION LETTER MARKING
P23TF10	S5		079902	Data Matrix Symbology Identification Marking
P28TF1	S4		076257	Qualification and certification req'ts for electron beam welding
P29TF1	S14		078685 079163	RIVET ACCEPTABILITY LIMITS
P29TF2	S1			Acceptability limits for Hi-Shear rivets
P29TF7	S6		076332	F.P.I. ACCEPTABILITY LIMITS
P29TF18	S1	1		Acceptability limits for aerodynamic smoothness requirements
P29TF25	S4	1	078337	Acceptability limits for surface integrity
P29TF73	S1			Surface integrity accept limits for nontraditional mach surfaces (superseded by S3 REV S1 Reference only)

Book 3				
Specification	Rev.	Amend	CID	Description
P1-TE4	S1			Shop run tolerances for sheet metal parts and fabrications
P3-TE1	S10			Magnetic Particle Inspection
P3-TE2	S6	1		FPI
P3-TE3	S7			Radiographic inspection
P3-TE10	S8			PROCESS QC requirements Cancellation notice
P4-TE17	S3	1		Cleaning of fluid lines
P8-TE2	S3			Welding and allied processes
P12-TE8	S1			Riveting
P23-TE1	S7		558128	Marking requirements
P23-TE5	S5			Marking requirements
P24-TE8	S2			Interpretation of test equipment drawings

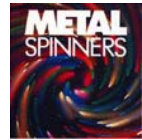


Book 4				
Specification	Rev.	Amend	CID	Description
B50TF1	S4	1	078286	Cobalt Base Wrought Alloy
B50TF2	S3			Welding Wire
B50TF6	S3		076087	Welding wire
B50TF8	S2		076068	Brazing, Silver alloy
B50TF9	S3			Welding wire
B50TF14	S22			Alloy sheet, strip, and plate
B50TF15	S34			Alloy bar, forgings, and rings
B50TF18	S3	1	078289 079331	Alloy sheet, strip, and plate
B50TF21	S5		078962	Titanium alloy sheet, strip, and plate
B50TF23	S1			Welding wire
B50TF24	S6		079348	Hastelloy alloy X sheet
B50TF25	S9		078868	Nickel base alloy sheet
B50TF26	S3		076024	Brazing alloy powder
B50TF31	S6	1	078293	Hastelloy alloy X bar forgings and rings
B50TF59	S6		078868	Alloy sheet
B50TF72	S8			Copper-Nickel-Indium Thermal spray powder
B50TF73	S3			Welding wire
B50TF76	S10			RENE 41 Alloy sheet, strip and plate
B50TF81	S12		079331	Brazing alloy (GE-81)
B50TF82	S2		076045	Corrosion resistant steel wire
B50TF109	S7			Rene 41 Alloy Sheet, strip and plate
B50TF145	S5		078797	Brazing alloy
B50TF146	S3		076639	Welding wire
B50TF151	S3			Bar, Forgings, and Rings Controlled Thermal Expansion
B50TF153	S1		076356	Controlled thermal expansion alloy sheet, strip, and plate
B50TF178	S4		078532	Haynes alloy 188 tubing
B50TF190	S4		079378	Cobalt Base Alloy Powder
B50TF196	S7		077437	Bar, Forgings, and rings controlled expansion alloy
B50TF253	S2			Controlled expansion alloy sheet, strip and plate (incoloy 909)
B50TF255	S5			HS188 ALLOY POWDER

Book 5				
Specification	Rev.	Amend	CID	Description
B50T1	S4			High strength commercially pure titanium
B50T2	S4			Commercially pure titanium
B50T3	S2			Oxygen-chrome-iron titanium base alloy
B50T4	S3			High strength low alloy titanium
B50T5	S3			Iron-Chromium-molybdenum titanium base alloy
B50T6	S1			Aluminum alloy Bars and small forgings
B50T7	S1	1		Wrought alloy steel
B50T8	S3			Aluminum, Chrome, iron, Molybdenum, Titanium base alloy
B50T9	S3	1		Nickel-Chromium-titanium-iron alloy
B50T10	S1			Chromium-molbdenum-vanadium alloy

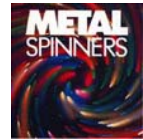
This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".

If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.



B50T11	S2			Chromium stainless steel AISI Type 405
--------	----	--	--	--

Book 5 Cont	Specification	Rev.	Amend	CID	Description
	B50T13	S14			Chromium-Molybdenum-vanadium alloy
	B50T14	S3			Wrought alloy steel
	B50T24	S1			Nickel-Chromium-Molybdenum wrought alloy steel
	B50T25	S4			For type 403 Stainless steel
	B50T26	S7			Cobalt base chromium nickel-tungsten wrought alloy
	B50T28	S1			Free machining stainless steel
	B50T33	S2			Age hardenable inconel W
	B50T34	S1			6 AL-4V-Titanium-Base Alloy
	B50T37	S3		11400	Nickel base Chromium, Aluminum, Titanium alloy
	B50T38	S5	2	078521	Wrought hastelloy Alloy B
	B50T39	S2			Wrought hastelloy R-235 Alloy
	B50T40	S4			GE Alloy 308
	B50T41	S3	1		Flash copper coated Cr-Mo-V alloy wire welding
	B50T42	S1			Cobalt base coating alloy
	B50T43	S1	1		GE alloy MI 1700 investment castings
	B50T44	S5			GE Alloy RENE 41
	B50T45	S1			Cobalt base alloy
	B50T46	S6	3		Vacuum investment A-286 Castings
	B50T47	S1			Heavily-coated welding electrodes
	B50T48	S6			Wrought hastelloy R-235 Alloy
	B50T52	S3			7A1-4M0 Titanium base alloy
	B50T53	S3			Cobalt base chromium-nickel-tungsten alloy castings
	B50T59	S7	2		GE Alloy RENE 41
	B50T60	S2			GE Alloy Astroloy
	B50T62	S1			PH Corrosion resistant steel welding wire
	B50T68	S3			Inconel 718C investment castings
	B50T69	S6	1		Inconel 718
	B50T73	S4		11197	Inconel W
	B50T79	S4		72491	Hastelloy X Alloy
	B50T81	S5			A-286 Alloy
	B50T83	S3		72491	Hastelloy X alloy sheet
	B50T84	S1			Hastelloy Alloy C Sheet and strip
	B50T102	S2	1		Steel Sheet and strip 17Cr – 4Ni – 4Cu
	B50T1131	S12			GE material B50T1131
	B50T1137	S4			Type 410 stainless steel sheet and strip
	B50T1180	S8			A-286 alloy
	B50T1181	S12	2		A-286 alloy
	B50T1182	S2			AISI Type 321 Stainless steel
	B50T1270	S7			L-605 Alloy

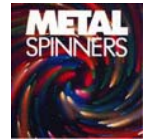


Book 6					
Specification	Rev.	Amend	CID	Description	
A50TF62	S3		075751	INORGANIC BONDED, SOLID FILM LUBRICANT	
A50TF63	S3		11478	LIQUID BRIGHT GOLD COATING	
A50TF94	S7		076577	Thixotropic epoxy resin paste adhesive	
B12B1	S16			Sheet & Plate Aluminum	
B14H71	S1			Ultrahigh purity nickel wire	
B21C2	S13			Resistance alloy strip and wire; Nickel_Iron-Chromium	
C50T1028	S10			Parts Made from consumable electrode	
C50T1068	S5			Controls, pat requirements and drawing interpretation	
C50T1078	S1			Penetrant inspection limits and repair welding limits	
C50TF95	S9			Controlled expansion alloy forged parts	
D50TF8	S7		079233	Temporary marking materials for engine parts	
E50TF66	S7			Lap Shear Bond strength testing of thermal sprayed coatings	
E50TF133	S10			Metallographic evaluation of grain size in wrought nickel and heat treat resistant alloys	
E50TF217	S5			MASS AIRFLOW MEASUREMENT	
E50TF218	S4			(SUPERSEDED) SEE E50TF217 CL-A	
F50TF13	S8			Copper-Nickel-Indium Thermal sprayed coating	
F50TF37	S6			Chromide Coating	*
F50TF45	S5			Cobalt Base Alloy Plasma Sprayed coating	
F50TF50	S7			Nickel- Chromium-aluminum... Thermal Barrier Coating	
F50TF69	S6			High density cobalt based alloy thermal sprayed coating	
F50TF92	S2			Aluminum Silicon Polyester plasma sprayed coatings	
M50TF7	S29			General specification for silver plated self-locking nuts	
M50T1709	S3			Detail requirements for wet blasting of T64-12 rotating parts	
M50TJ1002	S2			Welding and Brazing for industrial products	
SI-212,010	L	4		Standing instruction Interpretation of drawings	
70-32-05-260-001	Apr 06			SPM manual Radiographic inspection	
70-31-02-220-003	Oct 06			SPM Manual acceptability limits for FPI	
70-32-02-230-001	Jan 06			SPM manual Fluorescent Penetrant Inspection	

Book 7					
Specification	Rev.	Amend	CID	Description	
S-240	3/8/13			Generic control plan for GE aircraft engines threaded fasteners	
S-259	4/10/15			QUALITY REQT'S SPECIAL STOCK REMOVAL TOOLS	
S-399	1/20/16			Supplier discrepancy report	*
S-400	5/18/15			Certified materials test laboratories : metallic materials	
S-405	3/22/15			Furnace brazing and evaluation of furnace braze joints	*
S-422	10/23/13			Quality requirements for EDM and laser machining requirements	
S-478	10/27/15			Source substantiation format-structures CoE and combustion CoE	*
S-503	8/5/15			Generic quality requirements-Farmout orders	
S1001	4/2/15			Source Substantiation	
S1002	1/30/15			Supplier Quality Requirements	
S1000	5/29/15			Quality System Requirements	

This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".

If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.

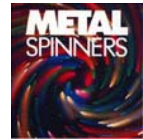


IHI Book 1			An asterisk denotes a change since last notice	
Specification	Rev.	CID	Description	
ISAJT-002	G		FPI	
IS-AJT-02061	L		CHANGE PROCEDURE	
ISAJT-02231	N		Req'ts of special process control for overseas supplier	
AJT-02244	B		SPECIAL PROCESS CONTROL	
ISAJT-02247	E		Issuing procedures of SN for CF34 engines	
ISAJT-02255	B		Manufacturing id codes	
ISAJT-02206	A		INTERPRETATION OF DRAWING	
ISAJT-02340	B		Digitization of engineering data for Source substantiation	
AJT-02277	A		DISPOSITION OF NONCONFORMING ITEMS	
ISAJT02268	D	2014/08/05	Requirements for retention time of quality records	
ISAJT-02280	U	205/06/09	Req'ts for quality of aero-engine, space, land and marine	
ISAJT-S400	M	2015/07/01	CERTIFIED MATERIALS LAB	
ISAJT-S422	F		QUALITY AND TECHNICAL REQT'S FOR EDM AND LASER	
ISAJT-S500	B		Characteristic accountability and verification	
ISAJT-S1000	N	10/13/15	QUALITY SYSTEM REQUIREMENTS.	
ISAJT-S1001	G	2015/06/15	SOURCE SUBSTANTIATION	
ISAJT-S1002	K/A	2016/04/01	SUPPLIER QUALITY REQUIREMENTS	*
ISAJT-P1TF3	S34/A	10/6/15	DRAWING INTERPRETATION	
ISAJT-P1TF9	S14		MACHINE FEATURES	
ISAJT-P1TF10	S14		SHEET METAL PARTS	
ISAJT-P1TF17	S14/A		Source substantiation administrative requirements	
ISAJT-P1TF18	S9-2/2		FASTENER INSTALLATION AND ACCEPTABILITY LIMITS	

IHI Book 2			An asterisk denotes a change since last notice	
Specification	Rev.	CID	Description	
ISAJT-P3TF2	S29		FLUORESCENT PENETRANT INSP.	
ISAJT-P3TF5	S16		Radiographic inspection	*
ISAJT-P3TF47	S5		FPI	
ISAJT-P8TF3	S18		GAS SHIELDED ARC WELDING	
ISAJT-P8TF4	S9		Resistance spot, seam and projection welding	
ISAJT-P8TF8	S2		Laser beam fusion welding	
ISAJT-P8TF11	S5		Gas tungsten arc, Gas metal arc and plasma arc welding	
ISAJT-P9TF1	S13		Brazing	
ISAJT-P10TF1	S8		Vacuum heat treating and brazing	
ISAJT-P11TF4	S7		Wet grit blasting of engine component parts	
ISAJT-P12TF24	S9-1		Installation of key type inserts and studs	
ISAJT-P23TF3	S40/B		Identification marking	
ISAJT-P29TF1	S14/2		Acceptability limits for formed rivets	
ISAJT-P29TF6	S9		Acceptability limits for open-face honeycomb structures	
ISAJT-P29TF7	S6		Acceptability limits for penetrant inspection	
ISAJT-B50TF14	S22		Alloy sheet, strip, and plate INCO 718	
ISAJT-B50TF17	S7		Nickel powder	
ISAJT-B50TF145	S5		Brazing alloy	
ISAJT-B50TF27	S8		Tungsten carbide aggregate	

This is not a complete list of specifications used by Metal Spinners Inc. This is only a par/tial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or " For Reference only ".

If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.



HONEYWELL book 1			An asterisk denotes a change since last notice
Specification	Rev.	CID	Description
91547- P6000	Y		GENERAL HEAT TREAT
91547 – P6063	F		PROCESS FOR LASER CUTTING AND DRILLING
91547 – P6200	M		PROCESS FOR WELDING, FUSION
91547 – P6600	K		IDENTIFICATION AND MARKING OF PARTS AND ASSEMBLIES
91547- P6804	N		INSPECTION OF WELDED JOINTS
91547 – P6806	J		RADIOGRAPHIC INSPECTION
91547 – P6808	M		LIQUID PENETRANT INSPECTION
91547 – P6820	E		MAGNETIC PARTICLE, FLUORESCENT AND VISUAL INSPECTION
91547 – P7200	T		FORMING, HEAT TREAT, AND CLEANING OF SHEET STOCK
E1000	J		DRAWING INTERPETATION
SC6500	M		INTERPRETATION OF DRAWING
SC6002	D		STANDARD REQUIREMENTS FOR SHEET METAL PARTS
SC7000	B		Drawing interpretation and standard MFG requirements

HONEYWELL book 2			An asterisk denotes a change since last notice
Specification	Rev.	CID	Description
C5010	J		VAPOR DEGREASING
C5049	P		CLEANING OF TITANIUM AND TITANIUM ALLOYS
C5102	B		CLEANING, DEGREASING, SOLVENT, SEMI-AQUEOUS AND AQUEOUS
CP5015	AE		PROTECTIVE TREATMENT- METAL PARTS
EMS52309	AB		PENETRANT INSPECTION
EMS52348	M		RADIOGRAPHIC INSPECTION
EMS52349	L		QUAL AND CERT OF NDT PERSONNEL
EMS52571	C		LASER BEAM PROCESSES OF CUTTING, SCRIBING AND DRILLING HOLES
EMS57931	C		ACCEPTANCE CRITERIA FOR WROUGHT PRODUCT
HT5071	U		ALLOY 718, HEAT TREATMENT
HT5083	D		HEAT TREATMENT HASTELLOY X
HT5088	AJ		HEAT TREATMENT, HIGH-TEMPERATURE ALLOYS
HPS1000	C		RADIOGRAPHIC INSPECTION
MC9014	R		MARKING OF MANUFACTURED ITEMS
MC9015	H		MANUFACTURED ITEM TRACEABILITY
PC5031	C		LASER MARKING OF PARTS
PNCP52525	J		MACHINING BY ELECTRICAL DISCHARGE AND LASER
PNCP52574*	C*		NONCONVENTIONAL DRILLING HOLES LESS THAN OR EQUAL TO .030 (superseded)
P6000	AB		GENERAL HEAT TREAT
P6063	D		LASER CUTTING / LASER DRILLING (superseded)
P6200	M		PROCESS FOR FUSION WELDING
P6201	L		RESISTANCE WELDING
P6202	H		FUSION WELDING, ALUMINUM AND MAGNESIUM
P6205	D		WELDING OPERATOR QUALIFICATION
P6207	B		WELDING GAS TUNGSTEN-ARC FOR TITANIUM
P6444	B		CHROMIC ACID ANODIC TREATMENT
P6600	K		Superseded by MC9014 and MC9015
P6804	V		INSPECTION OF WELDED JOINTS
P6806	G		RADIOGRAPHIC INSPECTION
P6808	M		LIQUID PENETRANT INSPECTION
P6820	F		ACCEPTANCE CRITERIA FOR MPI, FPI AND VISUAL INSPECTION
P7200	T		FORMING, HEAT TREAT AND CLEANING OF SHEET STOCK
WBS5018	AF		FUSION ARC WELDING

This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".

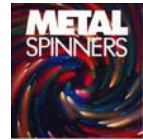
If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.

S:\MsiDocs\MSL_FORMS DCN MASTERS\Document control\QF-450-10 Rev.-B specification log sheet.doc

Metal Spinners
60 Winter street
Malden Ma. 02148
Tel (781) 321-0366
Fax (781) 321-9659

COMMONLY USED SPECIFICATION'S

6/28/2016

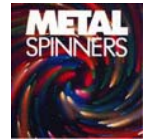


HONEYWELL	SPOC MANUAL	10/15/2010 REV. J
------------------	--------------------	--------------------------

MILITARY SPECS		BOOK 1		An asterisk denotes a change since last notice
Specification	Rev.	CID	Description	
A-A-1898	D	NOT 2	CUSHIONING MATERIAL, CELLULOSIC, PACKAGING	
MIL-STD-129	R		MARKING FOR SHIPMENT AND STORAGE	
MIL-STD-130	N		IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY	
MIL-P-130	F	NOT 1	LAMINATED AND CREPED WRAPPING PAPER *****INACTIVE*****	
MIL-HDBK-831		NOT 1	Preparation of test reports	
MIL-STD-2073	1D	Not 1	STANDARD PRACTICE FOR MILITARY PACKAGING	
MIL-STD-2219	A	1	Fusion welding for aerospace applications	
MIL-H-6088	G	NOT 1	Heat treatment of aluminum alloys*****Cancelled*****	
MIL-S-7742	D	Amd 1	SCREW THREADS, STANDARDS, OPTIMUM SELECTED SERIES	
MIL-P-17667	D	NOT 1	PAPER, WRAPPING, CHEMICALLY NUETRAL *****INACTIVE*****	
MIL-PRF-81329	D	Amd 1	Lubricant, solid film, extreme environment,	
PPP-B-566	E(3)	NOT 1	PAPERBOARD, FOLDING, BOXES	
PPP-B-676	E		SETUP BOXES	
PPP-C-795	D	NOT 2	PACKAGING, CUSHIONING MATERIAL	
MIL-STD-105E			Sampling procedures and tables (Canceled)	
MIL-STD-1916			DOD test method standards	
MIL-A-8625	F		ANODIC COATINGS FOR ALUMINUM AND ALUMINUM ALLOYS	

MTU		An asterisk denotes a change since last notice		
Specification	Rev.	CID	Description	
MTN 94111	2015-11		Quality Management Vendor Requirements *	
EN 10204	10-2004		Metallic Products-Types of inspection documents	

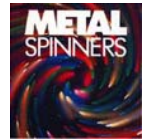
This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".
If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.
S:\MsiDocs\MSL_FORMS DCN MASTERS\Document control\QF-450-10 Rev.-B specification log sheet.doc



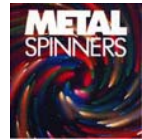
Aerospace Material Specification			An asterisk denotes a change since last notice
Specification	Rev.	CID	Description
2248	H		CHEMICAL CHECK ANALYSIS LIMITS *
2262	G		TOLERANCES NICKEL, NICKEL ALLOY, AND COBALT ALLOY SHEET
2269	F		CHEMICAL CHECK ANALYSIS LIMITS
2403	N		NICKEL PLATING *
2470	N		Anodic Treatment of Aluminum alloys chrome acid process
2471	H		Anodic treatment of aluminum alloys, sulfuric acid process, undyed coating
2473	H		CHEMICAL FILM TREATMENT FOR ALUMINUM ALLOYS
2615	F		HYDRAULIC PRESSURE TESTING
2685	E		WELDING, TUNGSTEN ARC, INERT GAS
2759	E		Heat treatment of steel parts *
2774	E		HEAT TREATMENT WROUGHT NICKEL ALLOY AND COBALT ALLOY *
2807	B		IDENTIFICATION
2808	D		IDENTIFICATION FORGING
2816	W		IDENTIFICATION WELDING WIRE
4026	M		ALUMINUM ALLOY, SHEET AND PLATE
4117	K		ALUMINUM ALLOY, ROLLED OR COLD FINISHED BARS, RODS, AND WIRE *
4190	K		Aluminum Alloy, welding wire *
4769	G		SILVER ALLOY BRAZING FILLER METAL *
4777	H		NICKEL ALLOY, BRAZING FILLER METAL
4902	K		Titanium sheet, strip and plate
4911	N		TITANIUM ALLOY, SHEET, STRIP, AND PLATE
4919	H		TITANIUM ALLOY SHEET, STRIP, AND PLATE
4956	F		TITANIUM ALLOY WELDING WIRE
5030	J		STEEL, WELDING WIRE
5504	M		STEEL SHEET, STRIP AND PLATE CORROSION AND HEAT RESISTANT
5046	D		CARBON STEEL, SHEET,STRIP AND PLATE
5510	S		STEEL, CORROSION AND HEAT RESISTANT, SHEET, STRIP, PLATE
5512	L		STEEL, CORROSION AND HEAT RESISTANT, SHEET, STRIP, PLATE
5519	N		STEEL, CORROSION RESISTANT, SHEET, STRIP
5525	J		STEEL, CORROSION AND HEAT RESISTANT, SHEET, STRIP, PLATE
5532	G		IRON ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP, PLATE
5536	N		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP...
5537	H		COBALT ALLOY, CORROSION AND HEAT RESISTANT SHEET, STRIP ...
5540	N		NICKEL ALLOY, CORROSION AND HEAT RESISTANT SHEET, STRIP...
5541	G		NICKEL ALLOY AND HEAT RESISTANT, SHEET AND STRIP
5545	F		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP ...
5570	Q		Steel, Corrosion and heat resistant, seamless Tubing
5596	K		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP...
5598	E		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP...
5599	G		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP
5604	G		STEEL, CORROSION RESISTANT, SHEET, STRIP AND PLATE
5608	F		COBALT ALLOY, CORROSION AND HEAT RESISTANT, SHEET, STRIP...
5613	R		STEEL, CORROSION AND HEAT RESISTANT, BARS, WIRE...
5645	S		STEEL, CORROSION AND HEAT RESISTANT BARS, WIRE,... *
5662	M		NICKEL ALLOY, CORROSION AND HEAT RESISTANT BARS, FORGINGS...
5665	N		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, BARS, FORGINGS...

This is not a complete list of specifications used by Metal Spinners Inc. This is only a partial list of commonly used specifications, New or revised specs shall be added. Remove and discard old obsolete copies or clearly mark as "Obsolete" or "For Reference only".

If a copy of any specification used by Metal Spinners or required on a purchase order is needed Please contact Metal Spinners Quality department for assistance.



Aerospace Material Specification			An asterisk denotes a change since last notice	
Specification	Rev.	CID	Description	
5666	G		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, BARS, FORGINGS...	
5679	H		NICKEL ALLOY, CORROSION AND HEAT RESISTANT WELDING WIRE	*
5680	J		STEEL, CORROSION AND HEAT RESISTANT, WELDING WIRE	
5687	M		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, WIRE	
5689	F		STEEL, CORROSION AND HEAT RESISTANT, WIRE	
5694	J		STEEL, CORROSION AND HEAT RESISTANT, WELDING WIRE	
5697	F		STEEL, CORROSION RESISTANT, WIRE	
5743	J		Steel, CORROSION AND HEAT RESISTANT, BARS, FORGINGS...	
5754	M		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, BARS, FORGINGS...	
5759	M		COBALT ALLOY, CORROSION AND HEAT RESISTANT BARS, FORGINGS...	*
5772	E		COBALT ALLOY, CORROSION AND HEAT RESISTANT, BARS, FORGINGS...	*
5773	E		Steel, Corrosion-resistant, bars, wire, forgings, tubing, and rings	
5776	G		STEEL CORROSION AND HEAT RESISTANT, WELDING WIRE	
5778	J		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, WELDING WIRE	*
5786	H		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, WELDING WIRE	*
5794	E		IRON ALLOY, CORROSION AND HEAT RESISTANT, WELDING WIRE	
5796	E		COBALT ALLOY, CORROSION AND HEAT RESISTANT, WELDING WIRE	
5798	H		ALLOY WELDING WIRE, CORROSION AND HEAT RESISTANT	*
5800	F		ALLOY, CORROSION AND HEAT RESISTANT WELDING WIRE	
5801	F		COBALT ALLOY, CORROSION AND HEAT RESISTANT WELDING WIRE	
5821	G		Steel, corrosion-resistant, welding wire	*
5832	H		NICKEL ALLOY, CORROSION AND HEAT RESISTANT, WELDING WIRE	*
5837	G		NICKEL ALLOY, CORROSION AND HEAT RESISTANT WELDING WIRE	
7232	H		RIVETS, CORROSION AND HEAT RESISTANT ALLOY **superseded**	
7490	Q		Rings, Flash Welded Corrosion and Heat Resistant austenitic steels	
AMS-W-6858	A		Welding, resistance: SPOT AND SEAM (Cancelled see AWS D17.2)	



MISC specifications				An asterisk denotes a change since last notice	
Book 4	Rev.	Amend	CID	publisher	Description
X3.93M	1981			ANSI	OCR character positioning *****Superseded by ANSI INCITS 93M*****
INCITS17	1981			ANSI	OCR-A
Z540-1-1994				ANSI	Standard for calibration
E 18	08			ASTM	Rockwell hardness... of metallic materials
E 140	07			ASTM	Hardness conversion table for metals
E 1417	05	E1		ASTM	Liquid penetrant examination
A1008	12a			ASTM	Steel sheet cold rolled
AS478	N			SAE	ID marking methods
AS7229				SAE	Rivets, steel, corrosion and heat resistant
AS7228				SAE	Rivets steel corrosion resistant
AS7232	2004 -07			SAE	Rivets, solid and tubular, nickel alloy
AS8879	D				Screw threads-UNJ profile
ISO 9001	2008 (E)			ISO	Quality MANAGEMENT SYSTEM
ISO 10007	2003 -06- 15				Quality Management systems- Guidelines for configuration management
ISO 10012-1	2003			ISO	Metrological confirmation system for
AS9100	C				Quality Systems
AS9101	D				Quality System Assessment
AS9102	A			SAE	First Article Inspection requirements
AWS B5.2:2001				AWS	Specification for the qualification of welding inspector specialists...
AWS D17.1:2010				AWS	Specification for fusion welding for aerospace applications
AWS D17.2:2013					Specification for resistance welding for aerospace applications
AWS B2.1:2009				AWS	Specification for welding procedure and performance qualification
AWS A2.4:2012				AWS	Standard symbols for welding brazing and NDE
AWS C1.1:2012				AWS	Recommended practices for resistance welding