

# MATERIAL & FINISH SPECIFICATIONS

## METALLIC MATERIALS

Aluminum	QQ-A-250/1-29	ASTM B209	AMS 4037	AMS 4003
	ASTM B479	ASTM B211		
Beryllium Copper	ASTM B194			
Brass	AMS 4505	ASTM B36	ASTMB16	ASTM B591
Copper	ASTM B152	AMS4500		
Cobalt Alloys				
(Alloy 188)	AMS 5608	AMS 5801		
(Waspaloy)	AMS 5544	AMS 5708	AMS 5828	
Nickel Alloys				
(Inconel® 600 Bar)	ASTM B166	AMS 5665	DIN 17752	
(Inconel® 600 Sheet)	ASTM B168	AMS 5604	DIN 17750	
(Inconel® 601 Bar)	ASTM B166	DIN 17752		
(Inconel® 601 Sheet)	ASTM B168	DIN 17750		
(Inconel® 625 Bar)	ASTM B45	AMS 5666	BS3076	
(Inconel® 625 Sheet)	ASTM B443	AMS 5599	BS3072	
(Inconel® 718 Bar)	ASTM B637	AMS 5662	AMS 5663	AMS5664
	PWA 1009	PWA 1010	GE B50TF15	
(Inconel® 718 Sheet)	ASTM B670	ASTM B637	AMS 5596	AMS 5597
	PWA 1033	GE B50TF14		
(Monel® 400 Bar)	ASTM B164	QQ-N-281	DIN 17750	
(Monel® 400 Sheet)	ASTM B127	QQ-N-281		
(Monel® R-405 Bar)	ASTM B164	QQ-N-281		
(Monel® R-405 Sheet)	ASTM B127	QQ-N-281		
(Monel® K-500 Bar)	ASTM B865	QQ-N-286		
(Monel® K-500 Sheet)	ASTM B856	QQ-N-286		
(AL-6XN®)	ASTM A182	ASTM A240	ASTM A249	ASTM A479
	ASTM B366	ASTM B462	ASTM B472	ASTM B564
	ASTM B657	ASTM B676	ASTM B688	ASTM B691
	ASTM B804			
(Alloy 20 Bar)	ASTM B 473			
(Alloy 20 Sheet)	ASTM B467			
(Hastelloy® C276 Bar)	ASTM B574	DIN 17752		
(Hastelloy® C276 Sheet)	ASTM B575	DIN 17750		
Phosphor Bronze	ASTM B103	AMS 4510		
Steel	ASTM A1008	ASTM A109	ASTM A684	AMS 5040
Spring Steel	QQ-S-700	ASTM A684	AMS 5120	
Stainless Steel (15-7)	ASTM A693	AMS 5520		
Stainless Steel (17-7)	ASTM A693	AMS 5528		
Stainless Steel	ASTM A167, A240/A240M, A484, A582, A666		AMS 5901 thru 5907	
(300 Series)	AMS 5910 thru 5913, AMS 5640		AMS 5507, 10, 13,16,17,18,19,24	
(300 Series Rod)	ASTM A484	ASTM A582	AMS 5640	
(316)	ASTM A240	AMS5524	AMS5507	
(321)	AMS5510			
(Nitronic 50 Bar)	ASTM A193	ASTM A262	ASTM A276	
	ASTM A479	AMS 5764		
(Nitronic 50 Sheet)	ASTM A240	AMS 5861		
(Nitronic 60 Bar)	ASTM A193	ASTM A194	ASTM A276	
	ASTM A479 F899	AMS 5848		
(Nitronic 60 Sheet)	ASTM A240 F899			
Duplex Stainless Steel				
(2205)	ASTM A240	ASTM A479	ASTM A790	
	ASTM A276 Condition A		ASTM A276 Condition S	
(2507)	ASTM A790	ASTM A789	ASTM A240	
	ASTM A276	ASTM A182		
(Zeron® 100)	ASTM A182	ASTM A182 (Grade F55)		ASTM A240
	ASTM A276	ASTM A473	ASTM A479	ASTM A790
	ASTM A815	ASTM A314		
Titanium	ASTM F67 (3)	ASTM B265	AMS 4900	Grade 2
	6AL-4V	6L-4V ELI		

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## NON-METALLIC MATERIALS

*Acetal	ASTM D4181	ASTM D6778		
*Fiber	ASTM D710			
*Glass Epoxy	MIL-I-24768/27 GEE-F(G-10/FR-4)		MIL-I-24768/3 GEB(G-11)	
*Glass Melamine	MIL-I-24768/1 GME(G-9)			
*Glass Silicone	MIL-I-24768/17 GSG(G-7)			
Ground Strap Insulation	SAE-AMS-DTL-23053/5, CLASS 1 BLACK			
Kapton	ASTM D5213, Type 1, Item A			
PCTFE	ASTM D1430-08 Group 1, Class 1, Grade 3			
Mica	ASTM D2131	ASTM D351	HH-I-536	
Mylar	MIL-I-631 Type A			
Neoprene	Commercial Grade 60			
Nylatron	L-P-410A, Type 6/6 SWR		ASTM D4066	ASTM D6779
*Nylon	L-P-410A, Type 6/6		ASTM D4066	ASTM D6779
Phenolic CE	MIL-I-24768/14 FBG		ASTM D709 CE	
Phenolic LE	MIL-I-24768/13 FBE		ASTM D709 LE	
Phenolic XXXP	MIL-I-24768/9 NPG		ASTM D709 N-1	
Polyethylene (High Density)	ASTM D4976 Group 1 Class 4 Grade 4 UL 94HB FDA 21 CFR 177.1520 © 2.1			
PVC	L-P-535, Type I, Class I		ASTM D1784	L-P-1036
Santoprene	ASTM D2000	BC608	BC812	
*PTFE	ASTM D1710	ASTM D3293	AMS 3656	AMS3660
	ASTM D3308	AMS 3652		

*\*Material color not guaranteed, unless specified on purchase order*

## STANDARD FINISH SPECIFICATIONS

Anodize: A1	MIL-A-8625, Type I, Class 1 & 2			
Anodize: A2	MIL-A-8625, Type II, Class 1 & 2			
Anodize: A3	MIL-A-8625, Type III, Class 1 & 2			
Black Oxide: BO	MIL-C-13924	MIL-F-495	AMS 2485	
Cadmium Plate: C1	AMS-QQ-P-416 Type I Class 2			
Cadmium Plate: C2	AMS-QQ-P-416 Type II Class 2			
Chem. Film	MIL-DTL-5541, Type I, Class 1A (Gold)			
Chrome	AMS 2460			
Gold	MIL-DTL-45204, Type II, Class 0			
Nickel Plate: N	AMS-QQ-N-290, Class 1, Grade G			
Passivate: P	AMS 2700 Method 1, Type2, Class 1 (copper sulfate test)			
Phosphate: PH	MIL-DTL-16232, Type Z, Class 2			
Silver Plate: S	ASTM B700			
Tin Plate: T1	ASTM B545, Class B (Bright)			
Tin Dip: T2	MIL-T-10727, Type II			
Tin Lead Plate: TL1	AMS-P-81728			
Tin Lead Dip: TL2	MIL-DTL-14072, M258			
Zinc Plate: Z2	ASTM B633, SC1, Type II (Yellow)			
Zinc Plate: Z3	ASTM B633, SC1, Type III (Clear)			

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# MATERIAL & FINISH SPECIFICATIONS

## OTHER AVAILABLE FINISH SPECIFICATIONS

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Anodize: A1 & A2	MIL-A-8625, Type I, Class 1 & 2 AMS 2470	MIL-A-8625, Type III, Class 1 & 2
Cadmium Plate: C1 & C2	AMS-QQ-P-416 Types I, II, III and Classes 1, 2, 3	
Chem. Film	MIL-DTL-5541, Types I, II and Classes 1A, 3 and color or colorless ASTM B921	
Gold	MIL-DTL-45204, Type I, II, III Grades A to D and Classes 00 to 6	
Nickel Plate: N	AMS-QQ-N-290, Classes 1 & 2, Grades A to G	
Passivate: P	ASTM A967                      AMS2700                      ASTM A380 MIL-DTL-5002	
Phosphate: PH	MIL-DTL-16232, Type M, Classes 1 to 4	
Silver Plate: S	ASTM B700, Types I, II, III and Grades A to D, Class N or S	
Tin Plate: T1	ASTM B545, Classes A to F, Matte, Bright or Flow Brightened	
Zinc Plate: Z2 & Z3	ASTM B633, SC1 to SC4 and Types I to VI	

## HEAT TREAT SPECIFICATIONS

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<b>Spring Clips</b>	1074-1095 Spring Steel	HR15N 80-83	
	Beryllium Copper	HR15N 73-79	
<b>Spring Washers</b>	1074-1095 Spring Steel	HR15N 82.5-84.5	
	Beryllium Copper	HR15N 78-81	
	17-7 Stainless Steel	TH1050	HRC 38-44