

MATERIAL & FINISH SPECIFICATIONS

METALLIC MATERIALS

| | | | | |
|---------------------------------|-----------------------------|-----------|------------------------|----------|
| Aluminum | QQ-A-250/1-29 | ASTM B209 | AMS 4037 | AMS 4003 |
| Beryllium Copper | ASTM B194 | | | |
| Brass | AMS 4505 | | | |
| Copper | ASTM B152 | AMS4500 | | |
| Phosphor Bronze | ASTM B103 | AMS 4510 | | |
| Steel | ASTM A109 | 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 (300 Series) | ASTM A167, A240/A240M, A666 | | AMS5901 thru 5907 | |
| (300 Series Rod) | AMS5910 thru 5913 | | AMS5513,16,17,18,19,24 | |
| | ASTM A484 | ASTM A582 | AMS 5640 | |
| Titanium | ASTM F67 (3) | AMS 4900 | | |

NON-METALLIC MATERIALS

| | | | | |
|--------------------------------|--|------------|---------------|------------|
| *Acetal | ASTM D4181 | ASTM D6778 | | |
| *Fiber | ASTM D710 | | | |
| *Glass Epoxy | MIL-I-24768/27 GEE-F(G-10/FR-4),/3 GEB(G-11) | | | ASTM D709 |
| *Glass Melamine | MIL-I-24768/1 GME(G-9) | | | ASTM D709 |
| *Glass Silicone | MIL-I-24768/17 GSG(G-7) | | | ASTM D709 |
| 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 | HH-I-536 | HH-I-538 | |
| Mylar | MIL-I-631 Type A | | | |
| Neoprene | MIL-R-6855, Class 2, Type A 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 | |
| *Teflon | ASTM D1710 | ASTM D3293 | AMS 3656 | AMS3660 |
| | ASTM D3308 | AMS 3652 | | |

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

STANDARD FINISH SPECIFICATIONS

| | | | | |
|---------------------|---|-----------|----------|--|
| Anodize: A | MIL-A-8625, Type II, 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, Type I, Grade D, Class S 2.5µm thick | | | |
| 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 B633-07, SC1, Type II (Yellow) | | | |
| Zinc Plate: Z3 | ASTM B633-07, 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 B633-07, SC1 to SC4 and Types I to VI | |