FINISH	METHOD	Rohs, Elv & Reach Compliant?	APPEARANCE	SPECIFICATIONS	C 414.271.8138
Gold, Hard (Type I or II)	METHOD MPM W		Matte to Bright	MIL-G-45204, ASTM B488, AMS 2422, AMS 2425	Type I (99.7%) or Type II (99.0%) per ASTM B488 and MIL-G-45204. Hard gold offers improved wear resistance for contact and interconnect applications.
Gold, Soft (Type III)	₩ ₩ MPM W	-	Matte to Satin	MIL-G-45204, ASTM B488, AMS 2422, AMS 2425	Type III (99.9%) per ASTM B488 and MIL-G-45204. The highest purity gold for wire bonding, highly corrosive or biocompatibility applications.
Silver, Matte (Type I)	🎟 🌐 MPM WV	×	Matte	QQ-S-365, ASTM B700, AMS 2410, AMS 2411, AMS 2412	99.9% pure, matte silver available with or without anti-tarnish (chromate) application. Type I silver provides the highest conductivity and purity required for high temperature applications. Post plate burnishing to bright condition possible.
Silver, Semibright (Type 2 or 3)	∰ ∰ MPM WV	×	Semi-Bright	QQ-S-365, ASTM B700	99.0% pure, semibright silver available with or without anti-tarnish (chromate) application. Outstanding corrosion resistance, electrical & thermal conductivity, high temperature resistance and lubricity/anti-galling. Post plate burnishing to bright condition possible.
Nickel, Bright (Watts)	⊞ ⊕ MPM W	~	Bright	ASTM B689, QQ-N-290, ISO 1458, AMS 2403, AMS 2423	Fully bright electrolytic nickel with moderate ductility. Nickel offers excellent corrosion resistance, surface conductivity, high temperature resistance and servers as a diffusion barrier as an underplate.
Ducta-Bright 7a® Nickel	III III MPM W	×	Bright	ASTM B689, QQ-N-290, ISO 1458, AMS 2403, AMS 2423	A proprietary bright nickel system developed by APT for application on shell casings in the ammunition industry. The most ductile bright nickel system available today for any application involving crimping or flexing.
Nickel, Sulfamate	⊞ ⊕ MPM W	×	Matte to Satin	MIL-P-27418, ASTM B689, QQ-N-290, ISO 1458, AMS 2424, AMS 2403, AMS 2423	A high purity, ductile nickel deposit free of organic brighteners. Excellent for brazing, soldering, welding or epoxy bonding. More corrosion resistant than watts formulation.
Nickel, Satin (Watts)	🎟 🌐 MPM WV	×	Matte to Satin	ASTM B689, QQ-N-290, ISO 1458, AMS 2403, AMS 2423	An unbrightened Watts nickel deposit commonly used for a satin appearance or as an underplate as a soldering base and diffusion barrier.
Black Nickel (Tin/Nickel)	⊞ ⊕ MPM W	~	Varies	MIL-P-18317	Jet black when plated full bright, charcoal gray when plated satin. Surface finish of raw part greatly influences final color, luster and appearance.
Electroless Nickel (High Phosphorous)	∰ ∰ MPM W	~	Matte to Satin	MIL-C-26074E, ASTM B733, ISO 4527, AMS 2404	Excellent corrosion performance, non-magnetic, Rc 50-53 (as-plated), Rc 67-69 (with heat treat), heavy build capabilities to 0.005 inches.
Electroless Nickel (Medium Phosphorous)	🎟 🌐 MPM W	×	Satin to Bright	MIL-C-26074E, ASTM B733, ISO 4527, AMS 2404	Good corrosion performance, magnetic, Rc 53-55 (as-plated), Rc 68-70 (with heat treat), heavy build capabilities to 0.002 inches.
Tacti-Black® Electroless Nickel	🎟 🌐 MPM W	×	Bright Black to Matte Grey	MIL-C-26074E, ASTM B733, ISO 4527, AMS 2404	A proprietary black electroless nickel that offers the same engineering properties of electroless nickel with a fully conductive, black appearance. Medium phosphorus variety is satin to bright black; high phosphorus variety is satin to matte charcoal grey. Surface finish of raw part greatly influences final color.
Copper	🎟 🌐 MPM WV	~	Matte to Bright	ASTM B734, AMS 2418, MIL-C-14550	Acid, alkaline cyanide and alkaline non-cyanide bath formulations. Heavy build capabilities to thicknesses 0.020" or more. Various as-plated deposit hardness available for specific projectile/bullet applications.
Tin, Bright	⊞ ⊕ MPM W	×	Bright	ASTM B545, MIL-T-10727, AMS 2408 & ISO 2093	Good corrosion resistance and excellent deposit ductility commonly used for contact or interconnect conductor applications.
Tin, Matte	🎟 🌐 MPM WV	× -	Matte	ASTM B545, MIL-T-10727, AMS 2408 & ISO 2093	A pure tin deposit free of organic brighteners. The best tin for soldering or bonding applications, often referred to as solderable tin.
Tin/Lead	🎟 🌐 MPM WV	×	Matte	ASTM B579, MIL-P-81728, ASTM B200	95/5, 10/90, 90/10 & 60/40 formulations inventoried; custom tin/lead ratios available upon request. Heavy build and plate-to-gauge capabilities for babbitt applications within the bearing industry.
Tin/Copper/Lead	🎟 🌐 MPM WV	×	Matte	Company Specific	8/2/90 formulation is an excellent babbitt material for plate-to-gauge bearing applications.
Lead	🎟 🌐 MPM WV	×	Matte	MIL-L-13808, AMS 2414, ASTM B200	A pure lead deposit for severely corrosive environments including exposure to strong mineral acids. Battery, energy storage usage as well as heavy build and plate-to-gauge for bearing/bushing applications.
Powder Coating		× -	Varies	MIL-PRF-24712 & Company Specific	APT specializes in demanding masking and high aesthetic powder paint applications. Chromating of aluminum/zinc is available to enhance corrosion performance.
Aluminum Chromate (Chem film, Conversion Coating, Alodine or Iridite)		*	Clear with Slight Blue or Brown Hue	ASTM B449, MIL-C-5541	A thin chemical conversion film applied to aluminum to enhance corrosion performance and/or improve adhesion to subsequent painting operations. APT offers a RoHS compliant clear trivalent chromate that imparts a slight iridescent blue or tan alloy-specific color.
Passivation, Commercial		Depending on spec	N/A	QQ-P-35, ASTM A967, ASTM A380, AMS 2700	Specifications available.
Passivation, AAA		Depending on spec	N/A	QQ-P-35, ASTM A967, ASTM A380, AMS 2700	A specialized passivation method developed by Carpenter Technology specifically for the passivation of free machining stainless steels including 303, 416, 420F, 430F and 440F. Prevents flash acid attack of free machining stainless steel alloys.
Passivation Precision (Medical)		Depending on spec	N/A	QQ-P-35, ASTM A967, ASTM A380, AMS 2700, ASTM F86	Delicate medical-grade passivation of medium sized to micro stainless steel, titanium and cobalt-chrome (MP35N) components utilizing ultrasonic generation in the cleaning, passivation and rinsing steps.
Vapor Degreasing		N/A	N/A	N/A	N-Propyl Bromide solvent for consistent, non-aqueous cleaning of components.
Ultrasonic Cleaning		~	N/A	Company Specific	Various frequency ultrasonic generators available with or without sweep. Cleaning in a range of cleaners or solvents including IPA. Sealed nitrogen-filled packaging available.
Quality ISO 13485 & 9001:2008 Certified, ITAR Registered, Substrates Mild steel, stainless steels, hardened steels, tool steels, lnconel, pure nickel, cobat Value Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP, Systems: Federal Firearms License, Numerous Corporate Approvals Mild steel, stainless steels, hardened steels, tool steels, lnconel, pure nickel, cobat Added Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP, Systems: Federal Firearms License, Numerous Corporate Approvals Mild steel, stainless steels, hardened steels, tool steels, lnconel, pure nickel, cobat Added Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP, Bill Federal Firearms License, Numerous Corporate Approvals Mild steel, stainless steels, hardened steels, tool steels, lnconel, pure nickel, cobat Added Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP, Bill Federal Firearms License, Numerous Corporate Approvals Mild steel, stainless steels, hardened steels, tool steels, lnconel, pure nickel, cobat Added Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP, Bill Federal Firearms License, Numerous Corporate Approvals Mild steel, stainless steels, hardened steels, not plate tool steels, lnconel, pure nickel, cobat Added Selective plating and powder coating, heavy build plating, plate-to-gauge, PPAP,					

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