

Finish	Military	AMS	ASTM	ISO	Notes
Anodize, Boric-Sulfuric	MIL-A-8625, Type IC or IIB	--	--	--	Environmentally friendly alternative to chromic anodize
Anodize, Chromic	MIL-A-8625, Type I	2470	B 580, Type G	8076, 8077	Also called GRAY anodize
Anodize, Hardcoat	MIL-A-8625, Type III	2469	B 580, Type A	10074	Thicker, denser anodize for superior abrasion resistance
Anodize, Hardcoat, PTFE Sealed	MIL-A-63576	2482	--	--	Anoplate's AnoLube III
Anodize, Sulfuric, Dyed	MIL-A-8625, Type II, Class 2	2472	B 580, Type D-F	8079	Black, blue, gold, green, and red dye available
Anodize, Sulfuric, Undyed	MIL-A-8625, Type II, Class 1	2471	B 580, Type D-F	7599, 8078	Sealed in dichromate, DI water, or nickel acetate
Black Chrome	MIL-DTL-14538	--	--	--	Anoplate's AnoBlack Cr
Black Copper	MIL-F-495	--	--	--	Anoplate's AnoBlack Cu
Black Nickel	MIL-P-18317	--	--	--	Anoplate's AnoBlack Ni
Black Oxide for Stainless	MIL-C-13924, Class 4	--	--	11408	Often smutty unless wiped
Black Oxide for Steel	MIL-C-13924, Class 1	2485	--	11408	Typically oiled otherwise only slight protection
Cadmium	QQ-P-416	2400	B 766	2082	Available in bright, black, olive drab, or yellow
Cadmium, Low Embrittlement	MIL-STD-870	2401	--	--	For aerospace application on high strength steels
Chem Film, General Purpose	MIL-DTL-5541, Type I, Class 1A	2473	B 449, Class 1, 2	10546, 8081	Often referred to by proprietary names, Iridite® or Alodine®
Chem Film, Low Resistance	MIL-DTL-5541, Type I, Class 3	2474	B 449, Class 3	10546	Thinner than above, but still yellow
Chem Film, Hex Chrome Free	MIL-DTL-5541, Type II	--	B 921	8081	Anoplate's AnoChem TCP (non-hex chrome bearing)
Chrome, Decorative	QQ-C-320, Class 1	--	B 456	1456	Actually nickel with thin chrome overlay
Chrome, Hard	QQ-C-320, Class 2	2406	B 650	6158	Thin dense chrome AMS 2438 (not done at Anoplate)
Copper	MIL-C-14550	2418	B 734	4525	Use cyanide for heat treat stop-off applications
Electroless Nickel	MIL-C-26074	2404	B 733	4527	Also available with co-deposited PTFE (see below)
Electroless Nickel, Blackened	MIL-C-26074	2404	B 733	--	Anoplate's AnoBlack NITE
Electroless Nickel / PTFE	--	2454	--	--	Anoplate's ENhanced PTFE co-deposited
Electropolish	--	--	B 912	15730	Greatly improves surface finish while passivating
Gold, Hardened	MIL-G-45204, Grade C	--	B 488, Type 3	4524	For terminal pins and contacts, more wear tolerant
Gold, High Purity	MIL-G-45204, Grade A	2422	B 488, Type 1	4524	For wire bonding and sealing
Lubricant, Dry Film	MIL-L-46010, MIL-L-8937	3084	--	--	Moly disulfide type, either heat-cured or air-dry
Magnesium - DOW # 7	MIL-M-3171, Type III	2475	D 1732	--	Also referred to as dichromate conversion coating
Magnesium - DOW # 9	MIL-M-3171, Type IV	--	--	--	Also called galvanic anodize
Nickel	QQ-N-290	2403	B 689	1456	Available in semi - bright or bright
Nickel, Low Stress	MIL-P-27418	2424	--	4526	For greater ductility in deposit
Passivate	QQ-P-35	2550	A 380, A 967	16048, 8074	Improved corrosion resistance on stainless
Phosphate, Heavy Zinc	MIL-DTL-16232, Type Z	--	--	9717	Prevents wear as well as providing corrosion resistance
Phosphate, Light Zinc	TT-C-490, Type 1	2480	--	9717	Typically used as paint or dry lube undercoat
Phosphate, Manganese	MIL-DTL-16232, Type M	2481	--	9717	Best undercoat for dry lube providing improved wearability
Silver	QQ-S-365	2410, 2411, 2412	B 700	4521	Semi-bright, non-decorative applications only
Tin	MIL-T-10727, Type I	2408	B 545	2093	Offering dull, matte, bright & reflowed
Tin - Lead (i.e. Solder)	MIL-P-81728	--	B 579	7587	Both 60/40 or 90/10 tin/lead available
Titanium Anodize	--	2488, Type 2	--	8080	ASTM B 600 covers descaling & cleaning of titanium
Titanium Conversion Coat	--	2486	--	--	Fluoride - phosphate type
Zinc	QQ-Z-325	2402	B 633	2081, 4520	Available in bright, olive drab or yellow
Zinc / Iron	--	--	B 842	15726	Anoplate's Black Ziron but also available in yellow
Zinc / Nickel	--	2417, Type II	B 841	--	Anoplate's ZYNIK II alloy with 12-16 % by weight nickel



PLATING SPECIFICATIONS

These coatings and more are available from Anoplate Corp., Syracuse, NY

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