



### Surface Treatment of Machined Parts

Item#	Surface treatment type	Followed spec	Function	Film thickness(um)
1	AL Chromate Oxidizing	MIL-DTL-5541F	Corrosion Resistance	1 ~ 5
2	Anodizing Clear	MIL-A-8625F	Oxidization resistance,Abrasive resistance and Decorative surface	5 ~ 9
3	Anodizing Black	MIL-A-8625F	Oxidization resistance,Abrasive resistance and Decorative surface	7 ~ 12
4	Hard Anodizing Clear	MIL-A-8625F	Oxidization resistance,ESD resistance,Enhance hardness and abrasive resistance,decorative surface	25 ~ 35
5	Hard Anodizing Black	MIL-A-8625F	Oxidization resistance,ESD resistance,Enhance hardness and abrasive resistance,decorative surface	25 ~ 35
6	Electroless.Nickel Plating	ASTM B733-04 MIL-C-26074	Decorative surface,oxidization resistance,enhance hardness and corrosion resistance,abrasive resistance	3 ~ 5
7	Electroless.Thick Nickel Plating	ASTM B733-04 MIL-C-26074	Decorative surface,oxidization resistance,enhance hardness and corrosion resistance,abrasive resistance	38 ~ 42
8	Oxidized black	MIL-A-8625F	Decorative surface,oxidization resistance	0.5 ~ 1
9	S.S Oxidizing black	MIL-A-8625F	Oxidization resistance and decorative surface	0.5~1
10	S.S Passivating	ASTM-B633	Oxidization resistance and decorative surface	0.05 ~ 0.1
11	S.S Electro polishing	ASTM B912-02	Surface roughness improvement and decorative surface	0 ~ 0.3
12	Zinc Plating (white/black,colorful)	ASTM B633	Oxidization resistance, decorative surface , Corrosion resistance	8 ~ 12
13	Silver plating	ASTM B700	Decorative surface and conductivity improvement	3 ~ 5
14	Golden Plating	MIL-G-45204	Decorative surface and conductivity improvement	2 ~ 3
15	Hard Chrome Plating	MIL-C-14538C	Oxidization resistance,decorative surface,surface roughness and abrasive-resistance improvement	3 ~ 6 (8 ~ 12)
16	Chromate	ASTM-B-117	Anti-oxidizing,Anti-passivation	1 ~ 2
17	Titanium Nitride	MIL-DTL-5541F-T	Anti-rusty,Increase surface hardness,Anti-oxidizing	0.5 ~ 2
18	Chromium Nitride	12053-27-9	Corrosion resistance	3