

Coating type	Thickness (μm)	Impact on magnetic properties	Salt spray test (h)	PCT test (h)	Humidity heat test (h)	Abrasion	Application and surrounding	Working Temperature (°C)	Production cost
Passivation	—	less	—	—	—	poor	instant protection	<200	medium
Bluing	—	little	—	—	—	poor	instant protection	<200	low
White Zn	≥ 4	little	≥ 24	—	—	poor	dry	<200	low
Color Zn	≥ 4	little	≥ 48	—	—	poor	dry	<200	low
Ni	≥ 10	large	≥ 24	≥ 300	≥ 300	medium	humid	<300	medium
Ni-Cu-Ni	≥ 12	large	≥ 48	≥ 500	≥ 500	medium	humid	<300	medium
Ni-electrolytic Ni	≥ 15	large	≥ 72	≥ 500	≥ 500	super	humid	<300	high
Ni-Au	≥ 10	large	≥ 72	≥ 300	≥ 500	poor	electric conductivity	<300	high
Ni-Ag	≥ 12	large	≥ 72	≥ 300	≥ 500	poor	electric conductivity	<300	high
Electrophoretic epoxy	≥ 15	less	≥ 96	≥ 500	≥ 360	bad	insulation/humid	<200	high
Spray epoxy	≥ 10	less	≥ 72	≥ 500	≥ 144	worse	insulation/humid	<200	high
Ni-Cu-epoxy	≥ 25	large	≥ 120	≥ 500	≥ 360	worse	high salt content/humid	<200	high