



# Types of Plating and Their Characteristics

Through our surface treatment technology and results, Create new values.

We offer plating services tailored to the unique properties of various metals, in response to our customers' specific needs. Please feel free to contact us for consultation.

Plating Material	Appearance	Corrosion Resistance	Wear Resistance	Hardness	Electrical Conductivity	Heat Resistance	Thermal Conductivity	Solderability	Bondability	Chemical Resistance
Au	◎	◎			◎		○	◎	◎	◎
Ag	◎				◎	◎	◎	◎	◎	
Cu	○(Base)				◎		◎	○	◎	
Pd-Ni	○	◎	○	○				○		
Sn	○							◎		○
Rh	◎	◎	◎	◎		◎				◎
Ni		○						○		
Ni-P		◎	◎	◎	○	◎				◎

## Au

- Excellent electrical conductivity
- Superior solderability
- Outstanding corrosion resistance
- Highly stable and resistant to deterioration

We also offer hard gold plating upon request.

## Sn

- Excellent solderability
- Suitable for electronic components

Available in both bright and semi-bright finishes. Copper underplating is recommended for optimal performance.

## Ag

- Excellent electrical and thermal conductivity
- Superior solderability
- High heat resistance
- Primarily recommended for industrial applications.

## Ni

- Adheres well to various base materials
- Excellent corrosion resistance and discoloration stability
- Ideal for use as an underplating layer

Available in three finishes: bright, semi-bright, and matte.

## Cu

- Excellent electrical conductivity
- Superior throwing power
- Ideal as an underplating layer

We offer two types: cyanide copper and pyrophosphate copper plating

## Ni-P

- Uniform coating thickness
- Excellent corrosion resistance
- High hardness

We offer electroless nickel plating with various phosphorus concentrations, as well as Ni-B (boron-based) plating.

## Pd-Ni

- Excellent corrosion resistance
- High hardness and superior wear resistance

Suitable as a surface finish alternative to gold, or as an underlayer beneath gold plating to enhance durability.

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