

# Direct gold plating

ERG provides direct gold plating to meet the needs of customers.

## Features

Direct gold plating refers to electroplating gold on substrate directly without nickel or others as underlayer.

This process is suitable for medical applications like anti-nickel allergy.

## Direct gold plating

### Direct Gold plating

Gold plating on stainless steel directly may result in bad adhesion and other issues because there is a strong oxide layer on the surface of stainless steel.

Generally a nickel underlayer is required to get a good adhesion prior to gold plating.

But on the other hand, nickel is allergic metal, and may lead to severe symptoms by skin contact.

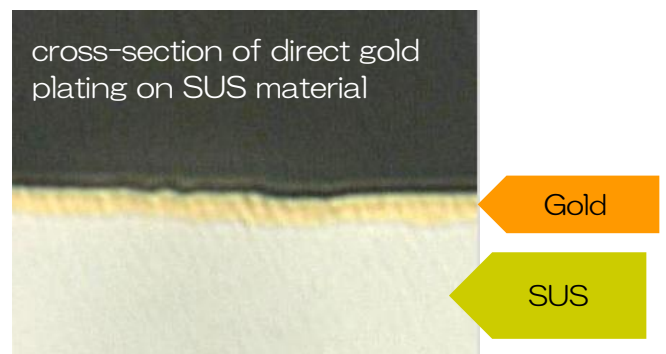
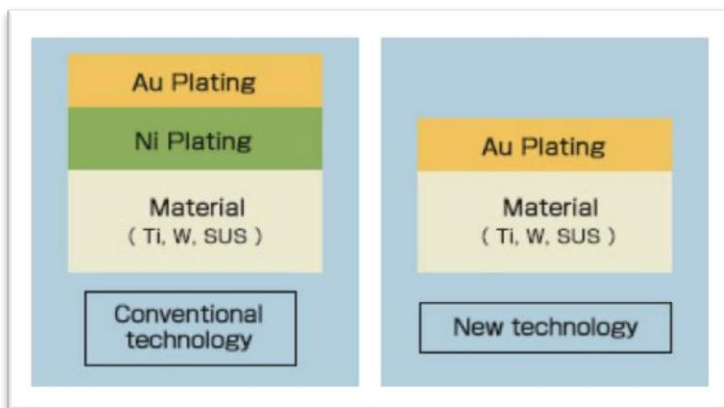
ERG provides a direct gold plating to solve the problem mentioned above.

#### ■ Merit

- Anti-nickel allergy
- Can be used in medical application
- Magnetism protection
- Cost saving due to nickel free

#### ■ Demerit

- Thin gold may result in the reactive substrates diffuse through the gold layer. (Tarnish or increase of contact resistance may occur as a result.)



## Suitable substrates

- Stainless steel
- Titanium
- Tungsten etc.

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