

# Heat-resistant / Enhanced heat-resistant 3-layer plating

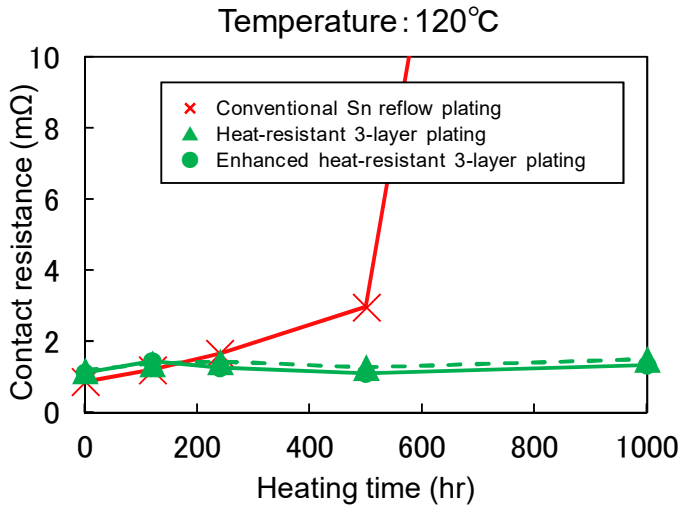
## 1. Features

- Available for high temperature condition (Plating before stamping)
- Superior electrical connection reliability, because Tin (Sn) layer remains for a long time under high temperature condition.
- Lower cost than precious metal plating

## 2. Application examples

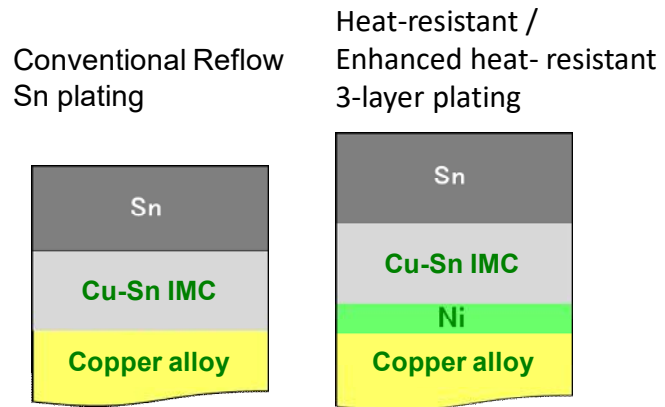
- Terminals with high voltage in electric vehicle, Terminals and Bus bars required heat resistance under high temperature conditions, such as Engine compartment

## 4. Contact resistance

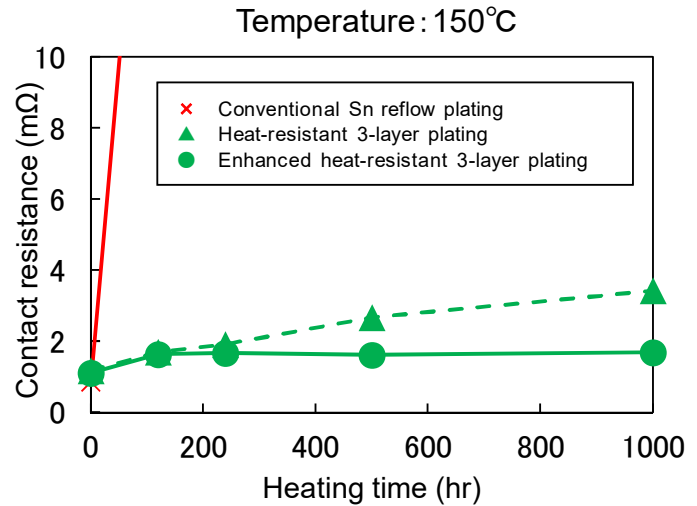


## 3. Structure of plating

- Nickel layer suppresses the excessive growth of Cu-Sn intermetallic compound (IMC) and improves heat resistance.
- Two level of heat resistance depending on different thickness of Sn layer.



Cross section of plating



- Applicable temperature for Heat-resistant / Enhanced heat-resistant 3-layer plating
  - Heat-resistant 3-layer plating : Up to 120°C
  - Enhanced heat-resistant 3-layer plating : Up to 150°C