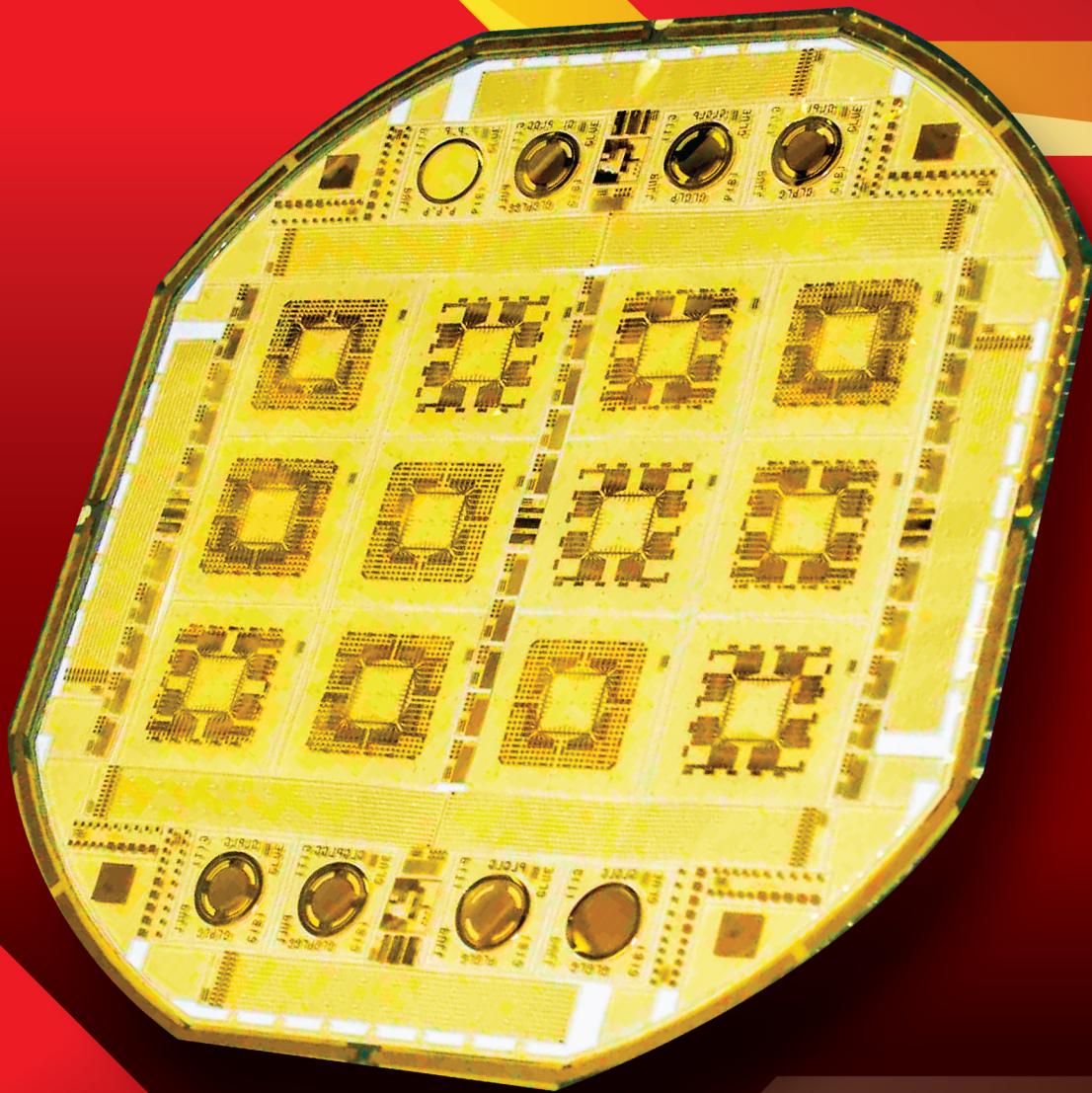




# NON-CYANIDE GOLD PLATING FOR SEMICONDUCTORS & MEMS



## NB SEMIPLATE AU 100

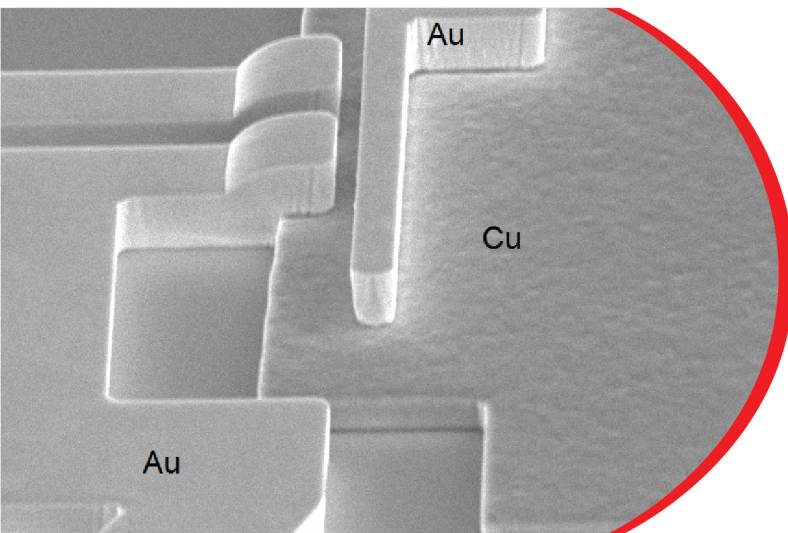
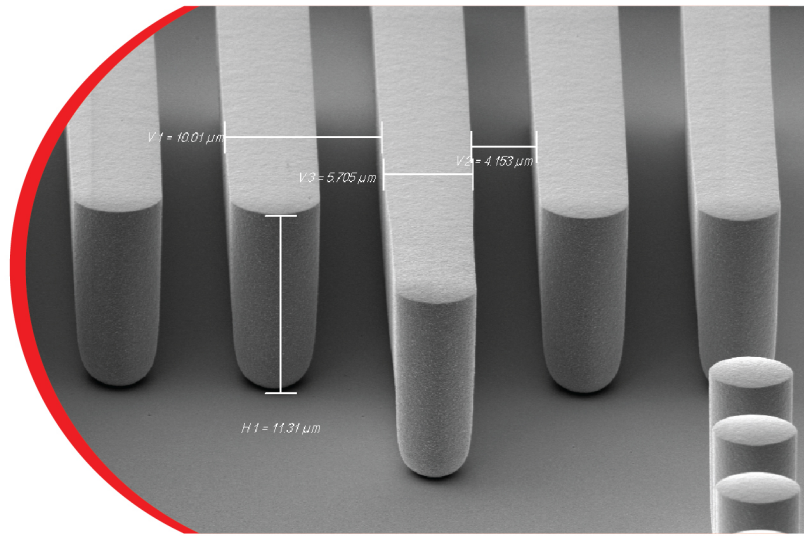
NB Semiplate AU 100 is an alkaline, non-cyanide electroplating formulation (sulphite-based), which consistently produces a bright, ductile deposit. NB Semiplate AU 100 is compatible and established with commercial plating tools.

### NB SEMIPLATE AU 100 finds applications in:

- Bond pad and surface finish
- Electrical lines, electrical contacts
- Medical implants
- RF and photonic applications

### Deposit characteristics

- Smooth, bright surface: Ra < 10nm
- Soft gold, hardness: 130 - 190 HV
- Contact resistance: 0.3 mΩ @ 200 g load
- Regular stress: 30 to 60 MPa tensile
- Purity: 99.9%
- Electrical resistivity: 3.2 - 3.8 μΩ-cm
- Complies with REACH / RoHS



### Bath & Operation

- Low hazard, non-cyanide, sulphite-based bath
- Alkaline, enhanced stability; good resist compatibility
- Single additive for grain refining
- Easy maintenance: >10 metal turn over achievable
- Robust process operation window
- Deposition rate: ~6μm/hour @1.5 mA/cm<sup>2</sup>, 98% efficiency
- Excellent thickness uniformity: <5% wafer level

### About NB Technologies

Established in 2004, NB Technologies GmbH is a leader in specialised electrolytes for electroplating metallization and etching chemicals, with the main application being in semiconductor and microsystems technology. With deep engineering experience and application expertise, NBT has developed advanced solutions for MEMS, semiconductors, PCBs, and photovoltaic technologies.

### About Grauer & Weil (India) Limited

Grauer & Weil (India) Limited or Growel is a leading manufacturer of surface finishing solutions. With decades of expertise, we have developed advanced electroplating chemicals, protective coatings, and engineering solutions that cater to sectors like automotive, aerospace, electronics, and infrastructure. Our offerings ensure superior quality, durability, and sustainability, making Growel a trusted partner for businesses worldwide.



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