

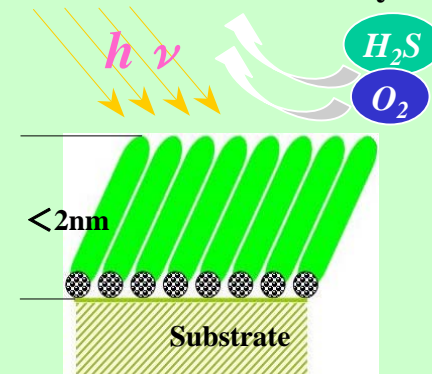
# ANTI-TARNISH FOR ELECTRONIC NOBLE METALS

## 「SAM-18」

### Characteristics

- Aqueous micro-emulsion
- Self-assembled monolayer on noble metals (Au, Ag, Pt and Pd), Cu and Sn
- No deterioration of resistivity and soldering
- Improved lubrication on the surface
- No change on surface appearance
- Surfactant based on natural products

### Self-assembled monolayer



### Tanning test

#### Exposure Test with 0.2%wt. Ammonium Sulfide



Ag plated chip

Immersed 10 min, 20°C



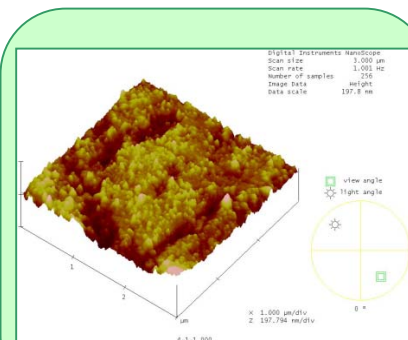
Treated:  
No change



Untreated:  
tanned

### Properties

- Appearance Milky white liquid
- Density 0.98
- pH ~ 5 ~
- Use Dilute with water
- Package 1 kg & 16 kgs net



AFM Image: Treated surface