

# GOLD NANOSPHERES

**Gold Nanospheres (Au)** are small gold particles with a diameter of 1 to 100 nm which, once dispersed in water, are also known as colloidal gold. The colloid is usually either an intense red color (for spherical particles less than 100 nm) or blue/purple (for larger spherical particles or nanorods). Gold nanospheres have a broad spectrum of application areas including medicine, food industry, water purification, and biological applications. In particular, gold nanospheres are applied to drug-delivery, photo-thermal therapy, imaging, sensing, catalysis, and even antimicrobials. Additionally, gold nanoparticles are suitable for functionalization and antibody conjugation.

## Quick Facts

Purity	:	99.99 %
APS	:	40nm
OD	:	20nm
Concentration	:	Customer requirement
Dispersing Agent	:	Water (ddH <sub>2</sub> O)

## PROPERTIES

- ✓ Low viscosity
- ✓ Antimicrobial
- ✓ High surface area
- ✓ Thermal stability
- ✓ Highly active catalysts

# Au

Slurry, Suspension, Dispersion

## APPLICATIONS

- ✓ Textiles
- ✓ Fuel cell
- ✓ Photo-catalysts
- ✓ Medical industry
- ✓ Cosmetics



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