



NANO GOLD POWDER

Purity	99.9999%
APS	65 gm below
Morphology	Spherical
Molecular weight	196.97 g/mol
Density	19.3 g/cm ³
Melting Point	1064.4 °C
Boiling Point	3080 °C
CAS #	7440-57-5

Nano Gold Powder is a groundbreaking innovation at the intersection of nanotechnology and materials science, poised to revolutionise a multitude of industries. Harnessing the remarkable properties of gold nanoparticles on a nanoscale, **Nano Gold Powder** offers a transformative approach to enhancing various processes, products, and technologies.

At its core, **Nano Gold Power** involves the production and utilisation of gold nanoparticles that are meticulously engineered at the nanoscale level. Gold nanoparticles possess unique physical, chemical, and optical properties that distinguish them from their bulk counterparts. Their high surface area-to-volume ratio, exceptional catalytic activity, and ability to interact with light in novel ways make them exceptionally valuable for a wide range of applications.

In the medical field

Nano Gold Powder has demonstrated remarkable potential for targeted drug delivery and precision medicine. By functionalizing gold nanoparticles with specific biomolecules, they can be guided to specific cells or tissues within the body. This approach minimizes damage to healthy cells and maximizes the treatments, thereby reducing side effects and improving patient outcomes. Additionally, gold nanoparticles' exceptional optical properties have enabled advancements in imaging technologies, such as photoacoustic imaging, which offers higher resolution and deeper penetration than traditional methods.

The energy sector

has also been profoundly impacted by **Nano Gold Powder**. Gold nanoparticles' catalytic properties have enabled breakthroughs in areas such as hydrogen production, fuel cells, and solar energy conversion. Their ability to accelerate chemical reactions with unparalleled efficiency has the potential to reshape the landscape of sustainable energy production, making processes more efficient and environmentally friendly.

In the realm of electronics and computing

Nano Gold Powder has opened avenues for more efficient and compact devices. Gold nanoparticles can serve as building blocks for advanced electronic components due to their exceptional conductivity and compatibility with semiconductor materials. This enables the development of smaller, faster, and more energy-efficient electronic devices, contributing to the ongoing progress of Moore's Law.

Environmental applications

of **Nano Gold Powder** are equally promising. Gold nanoparticles can be employed in water purification processes to remove pollutants and contaminants, leveraging their catalytic properties to facilitate efficient degradation of harmful substances. Their use in environmental monitoring systems can enhance the accuracy and sensitivity of detecting pollutants in air and water, contributing to better resource management and preservation.

In conclusion

Nano Gold Powder represents a paradigm shift in various industries, transcending conventional limitations and enabling new possibilities.

By harnessing the unique attributes of gold nanoparticles on a nanoscale, this technology has the potential to improve healthcare, energy production, electronics, and environmental sustainability. As research and development continue to unfold, **Nano Gold Powder** stands as a testament to human innovation's boundless potential to reshape the world around us.