

# Cobalt

NANOPARTICLES

Nanoparticles (NP) based materials with nano-designs have been the subject of exceptional research by the research network and industry as they show entrancing and numerous helpful properties, which are frequently not achievable by the mass materials. Due to exceptional properties at the reduced dimensions, nano-materials can be exploited for a variety of industrial and biomedical applications. The metal nanoparticles are interesting because they modify their optical, mechanical, magnetic, chemical and electronic properties, which can be readily utilized in a wide variety of technological applications.

The morphology of cobalt nanoparticles is spherical and their appearance is a gray or black powder. Cobalt nanoparticles possess magnetic properties, which leads to applications in imaging, sensors, and many other areas. Cobalt nano particles can also be used in several military applications such as high-performance invisible materials for absorbing extremely high frequency millimeter wave, visible light and infrared. cobalt nano particles used in many applications as like coatings, textile, medical sensor and others.

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# Cobalt

NANOPARTICLES



## CATALOGUE NO.

- NS6130-01-123
- NS6130-01-124
- NS6130-01-125

## SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Weight: 58.933 g/mol
- ✓ Form: Powder
- ✓ Color: Gray/Black
- ✓ Density: 8.90 g/cm<sup>3</sup>
- ✓ Melting Point: 1490 °C

High purity metal nanopowders are available in different sizes

## Applications

- ✓ Microwave-absorption materials
- ✓ Medical sensors
- ✓ Used in Magnetic resonance maging (MRI)
- ✓ Site-specific drug delivery agents for cancer therapies
- ✓ As a magnetic fluid - made of Cobalt, Nickel, Iron and its alloy nanoparticles
- ✓ Coatings, plastics, nano-fibers, nano-wires, textiles, and high performance magnetic recording materials

