

IRON NANOPOWDER

Iron, the most ubiquitous of the transition metals and the fourth most plentiful element in the Earth's crust, is the structural backbone of our modern infrastructure. It is therefore ironic that as a nanoparticle, iron has been somewhat neglected in favor of its own oxides, as well as other metals such as cobalt, nickel, gold, and platinum. Nanoscale iron particles are sub-micrometer particles of iron metal. They are highly reactive because of their large surface area. In the presence of oxygen and water, they rapidly oxidize to form free iron ions. They are widely used in medical and laboratory applications and also recommended for remediation of industrial sites contaminated with chlorinated organic compounds.

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Iron

nanopowder



CATALOGUE NO.

- NS6130-01-133
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SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Weight: 55.845 g/mol
- ✓ Density: 7.874 g/cm³
- ✓ Melting Point: 1538 °C
- ✓ Boiling Point: 2862 °C

All types of particles size are available in micro and nano range.

Applications

For treating industrial sites contaminated with chlorinated organic compounds

- ✓ The magnetic properties of the nanoparticles allow them to be used in memory tape
- ✓ In medical and laboratory applications
- ✓ In magnetic data storage and resonance imaging (MRI)
- ✓ In plastics, nanowires, coatings, nanofibers and textiles



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