Nanomaterials

Chemicals



Iron Nanopowder from NaBond



Grade A

NaBond_Iron nanoparticle(Grade A) is produced by laser evaporation process. The raw material used is high purity Iron. This process enables us to make high purity, small particle size, high active Iron nanoparticles in large quantity and low cost.

Product name: Iron nanopowder Appearance: Black powder Purity: 99.8% (metal basis) Impurities: Cr<0.006%, Ca<0.004%, Mn<0.0086%, Ni<0,009%, Si<0.22% Average particle size: 25nm (D90=50nm) Specific surface area: 40-60 m2/g Bulk density: 0.10-0.25 g/cm3 Packing: Vacuum packed

Grade B

Product name: Iron nanopowder Appearance: Black powder Purity: 99.5% (metal basis) Average particle size: 50nm Specific surface area: 6-13 m2/g Bulk density: 0.36 g/cm3 Packing: Vacuum packed

Grade C

Product name: Iron nanopowder Appearance: Black powder Purity: 99.5% (metal basis) Average particle size: 70nm Specific surface area: 6-8 m2/g Bulk density: 0.5 g/cm3 Packing: Vacuum packed

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Applications:

Microwave-absorptionmaterials: Metal nanoparticles has special absorbing ability to electromagnetic wave. Iron, cobalt. Zincoxide particles and its carbon package particles can be used as military high-performancemillimeter wave invisible materials, visible light-infrared invisible materials and structural typeinvisible, and mobile radiation shielding materials.

Magnetic-conductive size: With the advantages of high saturation magnetization and high magnetic inductivity of ironnanoparticle, magnetic conductive size can be made, it is used for the binding structure of finemagnetic head.

High-performancemagnetic recordingmaterials: With its advantages including high coercivity, high saturation magnetization intensity (up to1477km2/kg), signal-to-noise ratio and good oxidation resistance, it remarkably improves theperformance of tape, large-capacity hard disk and soft disk.

Magnetic fluid: The magnetic fluid made of iron, cobalt, nickel and its alloy particles provide excellentproperties, they are widely used in seal shock absorption, medical equipment, acousticadjustment, optical display, etc.

Storage

NaBond_Iron nanopowders have a shelf life of or more than 2 years. As Iron nanopowder is flammable, it should be kept at no-air and dry conditions, and it's best to use it under inert gas protection. It is passivated before shipment for safe shipping.

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Contact details:

email: info@nabond.com Tel: +86-755-89801091, 89813206 Fax: +86-755-86058970

NaBond Technologies Co., Limited