

American Elements Iron Cobalt Nanopowder

Category : Metal , Ferrous Metal

Material Notes:

General Description Iron Cobalt (FeCo) Nanopowder or Nanoparticles, nanodots or nanocrystals are black spherical or faceted high surface area nanocrystalline alloy particles with magnetic properties. Nanoscale Iron Cobalt Particles are typically 20-40 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range and also available in with an average particle size of 100 nm range with a specific surface area of approximately 7 m²/g. Nano Iron Cobalt Particles are also available in ultra high purity and high purity and coated and dispersed forms. Applications for Cobalt Iron Nanocrystals include in electro magnetic machines and micro-equipment due to their high magnetic saturation values and high Curie temperatures as Magnetic Nanoparticles capable of killing cancer cells, for magnetic data storage and magnetic resonance imaging (MRI) and in coatings, plastics, nanowire, nanofiber and textiles and in certain alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, bio-medical and bioscience properties.

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http://www.lookpolymers.com/polymer_American-Elements-Iron-Cobalt-Nanopowder.php

Physical Properties	Metric	English	Comments
Particle Size	0.020 - 0.040 µm	0.020 - 0.040 µm	
	0.10 µm	0.10 µm	
Specific Surface Area	7.0 m ² /g	7.0 m ² /g	
	30 - 50 m ² /g	30 - 50 m ² /g	

Descriptive Properties	Value	Comments
Appearance	Black	

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