ARMINANO

Armina
Engineering Co.

Zero-Valent Iron Nanoparticles
FNP201

Description:

nZVI has shown generally to possess some magnetic properties though this properties largely vary on factors such as history (preparation method and storage), size, shape, chemical composition, surface oxidation and dimension of the nanoparticle. In fact it is this property that results in the bare nanoparticles forming chain like structure and resulting in agglomeration.

Characterization	
CAS	7439-89-6
Stock No.	FNP201
Molecular formula	Fe
Molecular weight (g/mol)	55.85
Form	Powder
Color	Black
Morphology	Semi-Spherical, Agglomerated
Crystal structure	BCC
Size range (nm)	10-20
Total impurity (%)	N/A
Density (g/cm3)	N/A
Solubility	Insoluble

Image of zero-valent iron nanopowder (FNP201)

Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

catalysis, the light absorption, magnetic media materials, medicine as a carrier in combination with anti-tumor substances were located in the tumor area by the magnetic field, waste water treatment and absorbing materials

Safety:

Avoid breathing dust.
Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.

www.armina-eng.com
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A mission for sustainable future

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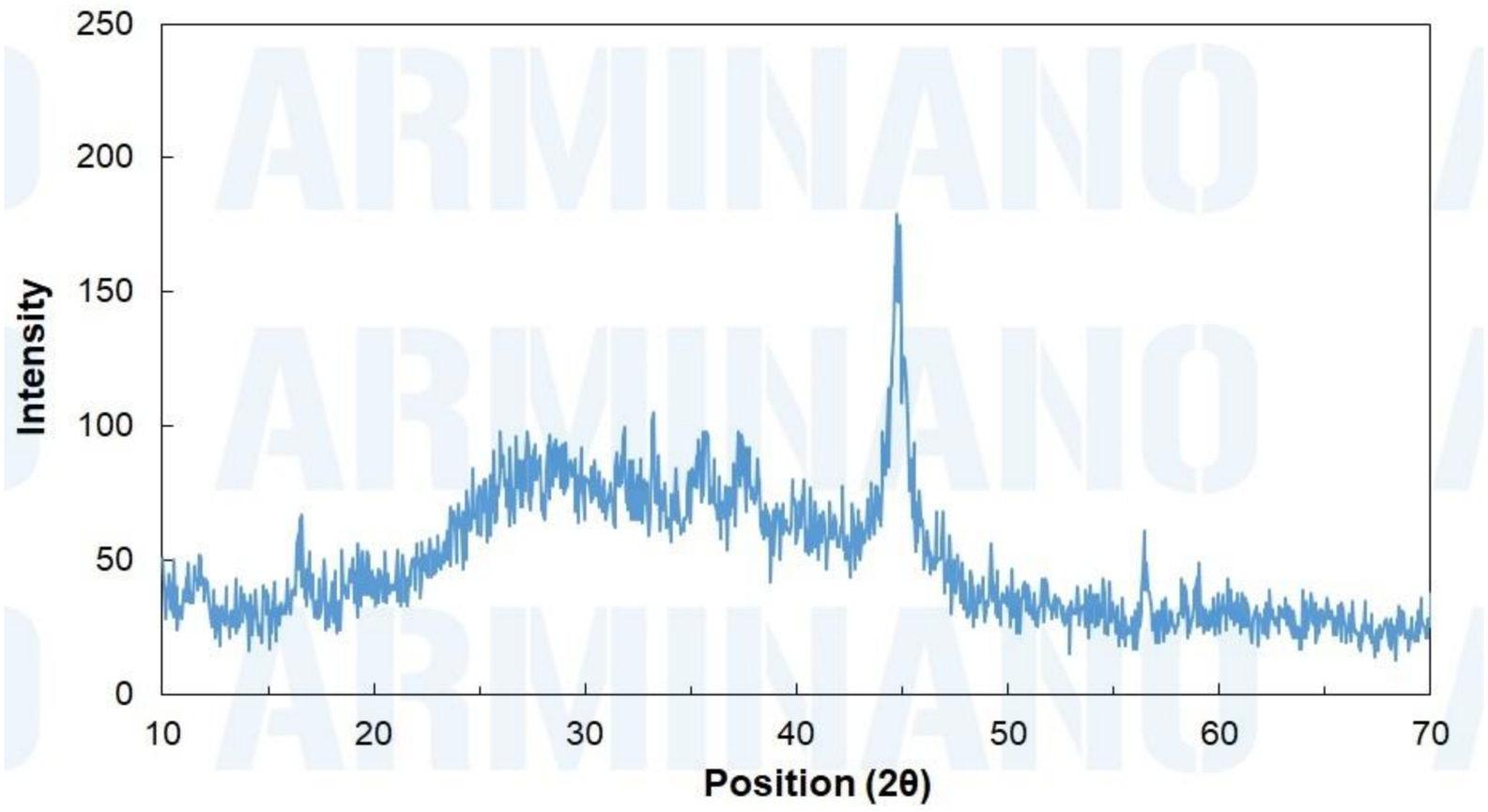
TEM image of FNP201



XRD pattern of FNP201

Storage:

Keep it in cool dry place.
Keep it under ethanol.
Avoid direct sunlight.
Do not freeze.
To disperse powder use sonication.

Shelf life:

When stored as specified the product is stable for at least 3 months.

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