

Specification Sheet

Iron Nanoparticles

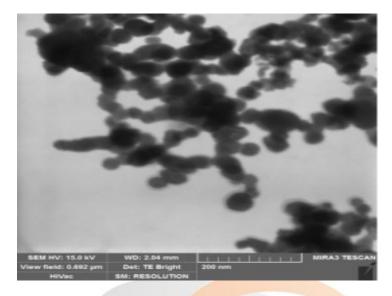
(Fe/C, Purity: 99%, APS: 25 nm, Carbon coated, Metal basis) Stock No: NS6130-01-135, CAS: 7439-89-6

Product	:	Iron Nanoparticles
Stock No	:	NS6130-01-135
CAS	:	7439-89-6
Purity	:	99 %
APS	:	25 nm (20-30nm)
Molecular Formula	:	Fe/C
Molecular Weight		55.845 g/mol
Form		Powder
Color	:	Black
Density		7.874 g/cm ³
Melting Point	INAP	
Boiling Point	Creating	Miracles in Black
Solubility	:	Insoluble in water
Main Inspect Verifier	:	Manager QC

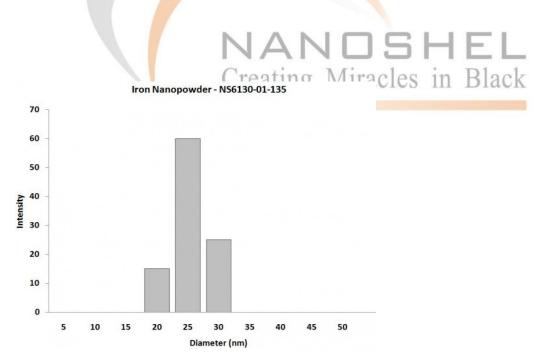
Note: Product Specification are subject to amendment and may change over time



Characterization of Iron Nanoparticles



SEM - Iron Nanoparticles



Particles Size Analysis - Fe Nanopowder



MATERIAL SAFETY DATA SHEET

IRON NANOPARTICLES Stock No: NS6130-01-135

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name	:	Iron Nanoparticles
Use	:	Research and Development
Address	:	Nanoshel LLC
		3422 Old Capitol Suit 1305
		Willmington DE – 19808
		United States

Emergency : +1.532.253.9878 Health 1 Fire 0 Reactivity 0 Personal Protection E Black

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterisation	:	Fe/C
Hazardous Ingredients	:	Nil
3. HAZARD IDENTIFICATION		
Toxicity	:	No Data Available
Eye Contact	:	Dust may cause irritation
4. FIRST AID MEASURES		
Skin	:	Wash skin with soap and copious amounts of water
Eyes	:	Imediate and prolonged irritation treat with copious amounts of water.
Ingestion	:	Wash out mouth with water provided person Is Conscious.
Inhalation	:	If inhaled, remove to fresh air. If not breathing give artificial respiration. If



5. FIREFIGHTING MEASURES	5	breathing is difficult, give oxygen		
Extinguishing Data	:	Water Spray		
Unsuitable Extinguishing Data	:	Carbon Dioxide, Dry Chemical Powder, Polymer Foam		
Unusual Firefighting Hazards	:	Capable of creating a dust explosion		
Special Firefighting Procedures	:	Use normal procedures which include wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		
6. ACCIDENTAL RELEASE MI	EASUR	ES		
Personal Precautions	:	Wear respirator, chemical safety goggles, rubber boots and gloves.		
Precautions to the Environment		Sweep up, place in a bag and hold for waste disposal.		
Cleanup Procedures	A	Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.		
7. HANDLING AND STORAGE ating Miracles in Black				
Handling Precautions	:	Chemical Safety Goggles. Compatible with Chemical-resistant Gloves		
Storage	:	Store in a cool dry place.		
Unusable Packaging Materials	:	Wash thoroughly after handling. Irritating dust, Keep tightly closed		

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment

Respiratory	:	Self-contained breathing apparatus
Hand	:	Chemical-resistant Gloves
Eye	:	Avoid contact with eyes
Skin	:	Wash thoroughly after handling



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance		
Form	:	Powder
Colour	:	Black
Odour	:	No Odour

Safety Related Information

FlashPoint	:	N/A
Boiling Point	:	2862°C
Melting Point	:	1538°C
pH	:	N/A

10. STABILITY AND REACTIVITY

Stability	:	Completely Stable
Reactivity	:	Non Reactive/ Non Soluble

11. TOXICOLOGICAL INFORMATION

Possible Health Effects	
Skin	: No effect
Eyes	: Irritation
Inhalation	: No Chocking Hazard
Toxicity	Non-Toxic

12. ECOLOGICAL IMPACT reating Miracles in Black

Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. No Negative Ecological Impact, Data not Available

13. WASTE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber

14. TRANSPORT INFORMATION (UN ORNEK OLARAK VERİLMİŞTİR)

HS Code	:	72052910
CAS	:	7439-89-6
Proper Shipping Name	:	Iron Nanoparticles
Air Transport (ICAO & IATA)	:	Metal Nanopowder
Class	:	Non Hazardeous
Packing group	:	Normal Packing
Transport information	:	Not regulated for IATA (AIR)



15. OHTER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Iron Nanoparticles

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC):

R36- Irritating to eyes S2- Keep out of the reach of children S46- If swallowed, seek medical advice immediately & show container or label

HMIS (U.S.A.): Health Hazard: 1 Fire Hazard: 0 Reactivity: 0 Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1 Flammability: 0 Reactivity: 0 Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Creating Miracles in Black

16. OTHER INFORMATION

References: Not available **Other Special Considerations:** Not available SHE