

BARIUM IRON OXIDE NANOPOWDER



Purity
99%







NS6130-12-000166

NEXT 



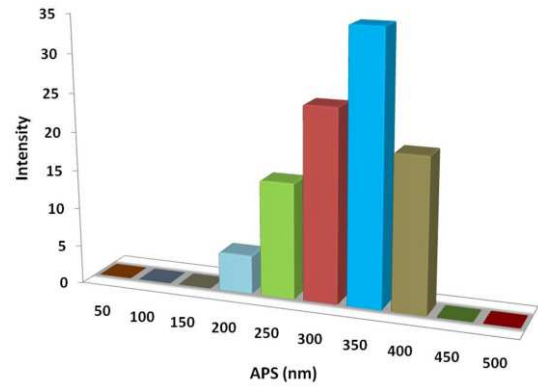
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BARIUM IRON OXIDE NANOPOWDER

Barium ferrite is a chemical compound and its formula is BaFe₁₂O₁₉. It is a highly magnetic material, and has a high packing density. It is a metal oxide. It has ample of applications in magnetic card strips, loudspeaker magnets and magnetic tapes. In long term, data can be stored in it and also it resistant to temperature change, corrosion and oxidation.

The nanoparticles have tested to be resistant to a number of distinct environmental stresses such as humidity and corrosion because these are already oxidized and it cannot be further oxidized. Due to these reasons these are resistant to corrosion. In future barium ferrite can be used in the linear tape open storage due to its high packing density. BaFe can be decreased to a smaller size and higher packing density owing to its circular structure



ADDITIONAL POWDER CHARACTERISTICS

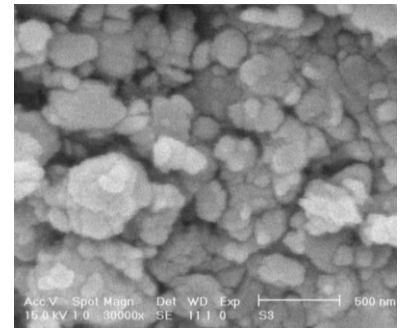
Stock No.	Purity	APS
NS6130-12-000166	99%	500nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
BaFe ₁₂ O ₁₉	1111.06 g/mol	5.4 g/cm ³	1300 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	BaFe ₁₂ O ₁₉	Other Metal
Barium Iron Oxide Nanopowder	99%	1000ppm



APPLICATIONS

- > Used in recording media
- > Utilized in permanent magnets
- > Used in magnetic stripe cards

QuickFACTS

Product	: Barium Iron Oxide Nanopowder
Stock No	: NS6130-12-000166
CAS	: 12047-11-9
Color	: Dark Brown - Black
Form	: Powder
Symbol	: BaFe ₁₂ O ₁₉
Group	: Barium 2,Iron 8,Oxygen 16

Electronic Configuration:

Barium [Xe] 6s², Iron [Ar] 3d⁶ 4s²,Oxygen [He] 2s² 2p⁴
SSA : 4-8m²g



ISO 9001:2015
CERTIFIED COMPANY

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