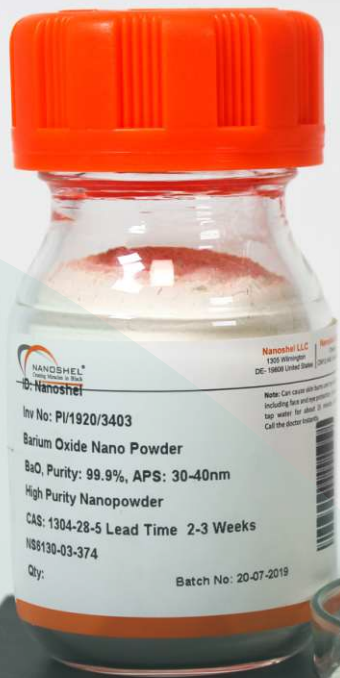


BARIUM OXIDE NANOPOWDER



Purity
99.9%

BaO

NS6130-03-374

NEXT



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BARIUM OXIDE NANOPOWDER

Nanoparticles have unique properties such as high surface to volume ratio and the nanoparticles can be categorized in three distinct ways such as shape, size, and properties. Nanoparticles have unique physical and chemical properties so these are so attracted in recent years. Barium oxide is a non-flammable and also hygroscopic compound. It is usually synthesized by the thermal decomposition method. It has a wide range of applications in various industries such as electronics, ceramics, fuel cells, batteries, agriculture, etc. It is also utilized in glass and optics. BaO shows a cubic structure and also available in the dispersed, ultrafine particles are available in the market.

These nanoparticles are transparent due to this these are utilized in the coating industry. Mostly oxide groups are non-conductive but these compounds have one oxygen anion and one metallic cation to make them ionic conductive. This compound is also employed as ethoxylation catalyst in the reaction of ethylene oxide and alcohols. It is also utilized in ceramics, glass, batteries etc.

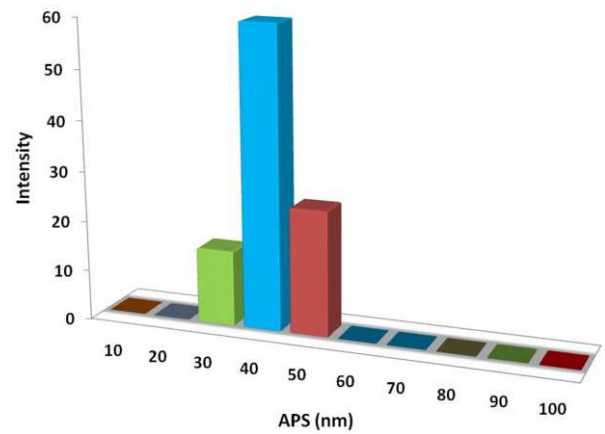
QuickFACTS

Product	:	Barium Oxide Nanopowder
Stock No	:	NS6130-03-374
CAS	:	1304-28-5
Color	:	Light yellow - greenish to grayish
Form	:	Powder
Symbol	:	BaO
Group	:	Barium 2/Oxygen 16

Electronic Configuration:

Barium [Xe] 6s2

Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

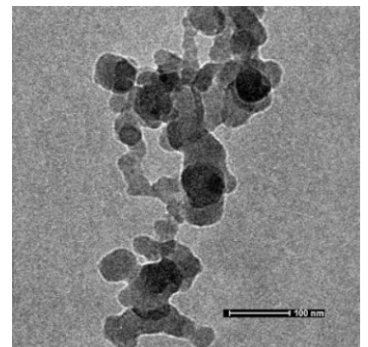
Stock No.	Purity	APS
NS6130-03-374	99.9%	30-40nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
BaO	153.326 g/mol	5.72 g/cm ³	1923 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	BaO	Other Metal
Barium Oxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > Utilized in electronics
- > Used in fuel cells
- > Batteries
- > Used in agriculture
- > Ceramic applications
- > Utilized in optics



ISO 9001:2015
CERTIFIED COMPANY

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