

Specification Sheet

Magnesium Oxide Nanoparticles

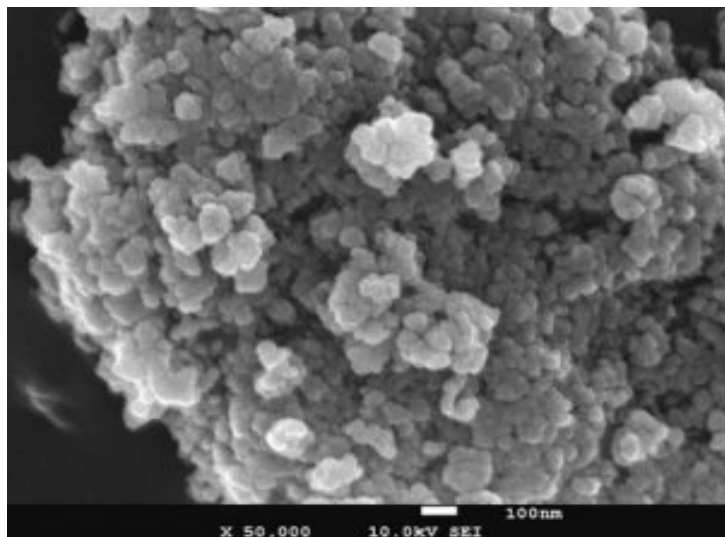
(MgO, Purity: 99.9%, APS: 40nm)

Stock No: NS6130-03-330, CAS: 1309-48-4

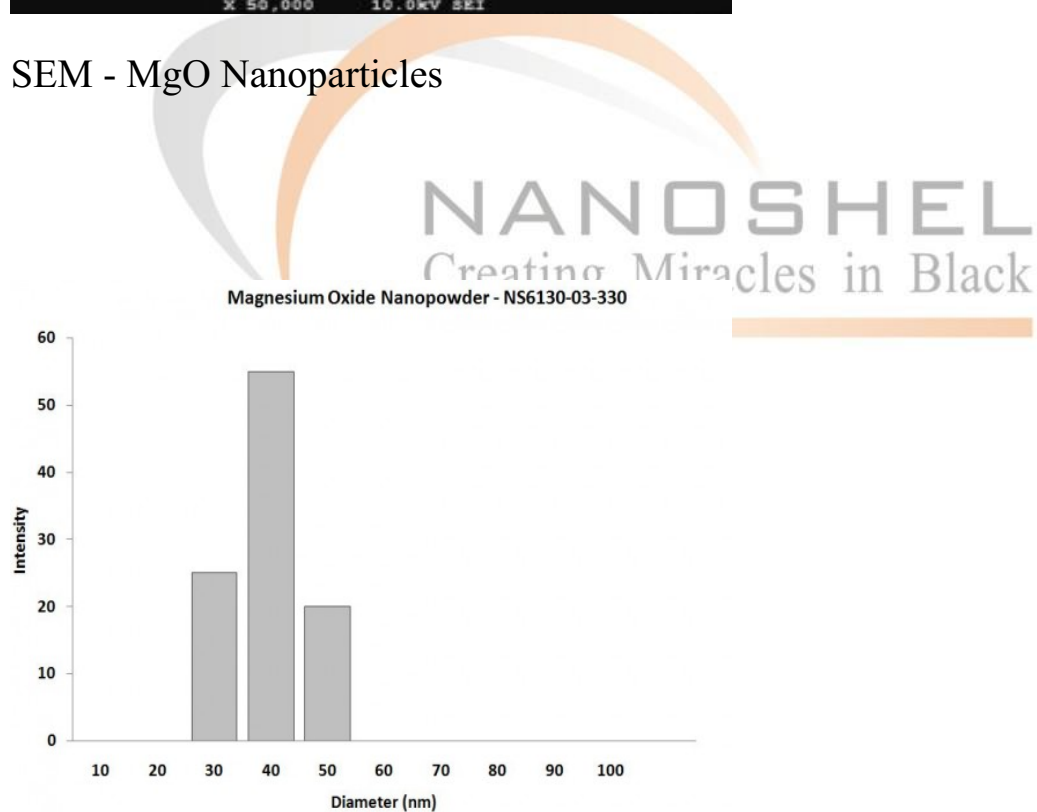
Product	:	Magnesium Oxide Nanopowder
Stock No	:	NS6130-03-330
CAS	:	1309-48-4
Purity	:	99.9%
APS	:	40nm
Molecular Formula	:	MgO
Molecular Weight	:	40.304 g/mol
Form	:	Powder
Color	:	White
Density	:	3.58 g/cm ³
Melting Point	:	2852 °C
Boiling Point	:	3600 °C
Solubility	:	Soluble in hydrochloric acid and dilute acids
Main Inspect Verifier	:	Manager QC

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

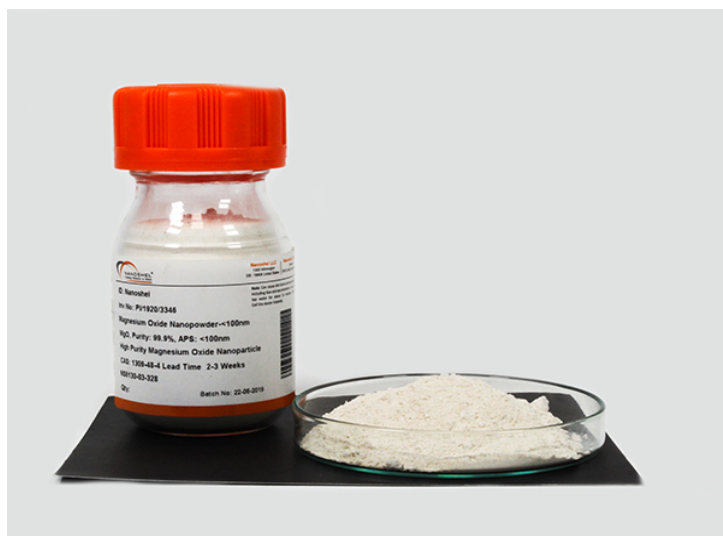
Characterization of Magnesium Oxide Nanoparticles



SEM - MgO Nanoparticles



Particles Size Analysis



Magnesium Oxide Nanopowder



MATERIAL SAFETY DATA SHEET

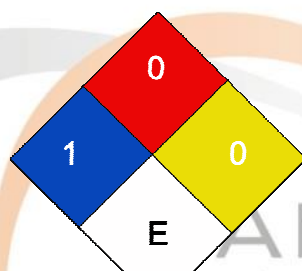
MAGNESIUM OXIDE NANOPARTICLES

Stock #: NS6130-03-330

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name : Magnesium Oxide 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

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterisation : MgO
 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 : Immediate 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

breathing is difficult, give oxygen

5. FIREFIGHTING MEASURES

- 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 MEASURES

- 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 : Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

- 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	:	White
Odour	:	No Odour

Safety Related Information

FlashPoint	:	N/A
Boiling Point	:	3600 °C
Melting Point	:	2852 °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

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	:	28161010
CAS	:	1309-48-4
Proper Shipping Name	:	Magnesium Oxide Nanoparticles
Air Transport (ICAO & IATA)	:	Oxide 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: Magnesium Oxide 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:



NANOSHEL
Creating Miracles in Black

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

16. OTHER INFORMATION

References: Not available

Other Special Considerations: Not available