

# CALCIUM OXIDE NANOPOWDER



Purity  
**99.9%**

**CaO**



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NS6130-03-397

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## CALCIUM OXIDE NANOPOWDER

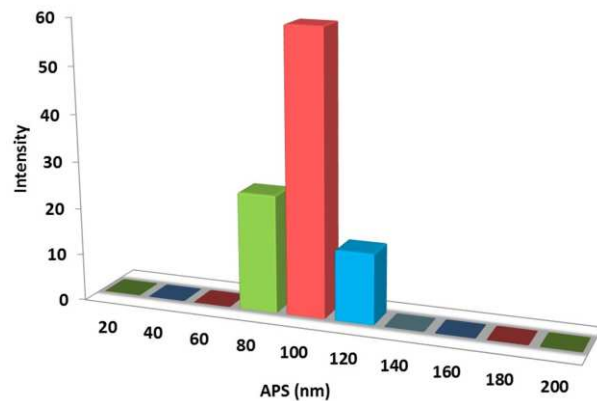
Calcium oxide is a chemical compound and its chemical formula is CaO. It is also called a quick lime or burnt lime. Mainly the applications and properties of the nanoparticles are influenced by the size and morphology of the nanoparticles. It also shows dielectric properties and also exhibit electric properties with doping. It has various applications in distinct fields, for instance, catalysis, sensors, optoelectronic and environmental remediation. It has so many industrial applications. It is inexpensive and it is available in nature. It is also utilized for balancing out the acidic soil. This compound is employed in electronics such as LEDs. It is used in those areas where rainfall washes the calcium from the soil. It is feasible in drug delivery systems and used as dehydrating agent during the manufacturing of steel, an absorbent, and in fertilizers. It has the potential application for wastewater as hydrogen regulator.

## QuickFACTS

Product	:	Calcium Oxide Nanopowder
Stock No	:	NS6130-03-397
CAS	:	1305-78-8
Color	:	White
Form	:	Powder
Symbol	:	CaO
Group	:	Calcium 2/Oxygen 16

### Electronic Configuration:

Calcium[Ar] 4s<sup>2</sup>/Oxygen [He] 2s<sup>2</sup> 2p<sup>4</sup>



### ADDITIONAL POWDER CHARACTERISTICS

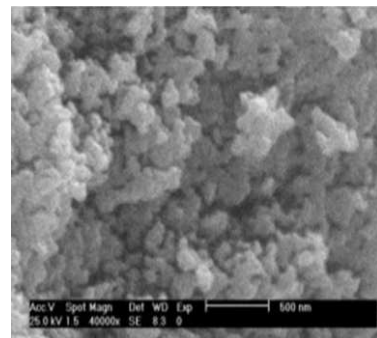
Stock No.	Purity	APS
NS6130-03-397	99.9%	80nm

### TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
CaO	56.07 g/mol	3.34 g/cm <sup>3</sup>	2572 °C

### CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	CaO	Other Metal
Calcium Oxide Nanopowder	99.9%	1000ppm



### APPLICATIONS

- > Biofuel applications
- > Flame retardants
- > Used in the clean up of toxic contamination from chemical warfare.
- > Used in Catalysis
- > Used as an antibacterial agent
- > Optoelectronics
- > Sensors



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015  
CERTIFIED COMPANY

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