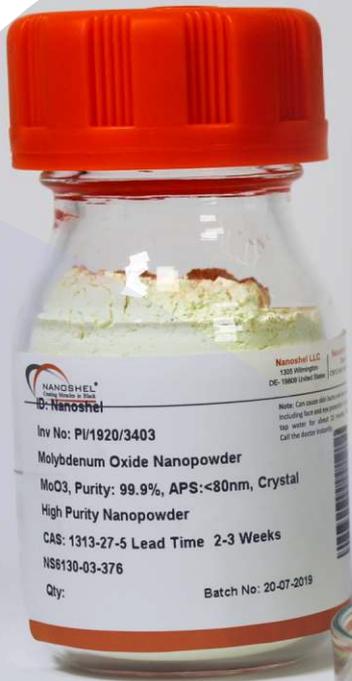


MOLYBDENUM OXIDE NANOPOWDER



Purity
99.9%

MoO₃

NS6130-03-376

NEXT



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MOLYBDENUM OXIDE NANOPOWDER

Nanopowder of molybdenum has been utilized in different industrial fields in the form of lubricant additives, metallurgical additives, and powder sintering additives. It is also the raw material of electrical components, smoke suppressor and cleaner. Molybdenum trioxide is a chemical compound having formula MoO_3 . It occurs as the rare mineral molybdenite. In this chemical compound, each molecule has one molybdenum atom with three oxygen atoms. Molybdenum oxide unique catalytic and electronic properties and also have the application in chemical synthesis, recording media, petroleum refining, and sensors. It is utilized in optical device applications and the most auspicious material for photoelectrochemical energy production due to high surface area and also having higher photo efficiencies. It is also believed that this compound has the potential to be an anti-bacterial agent and plays a role in waste management.

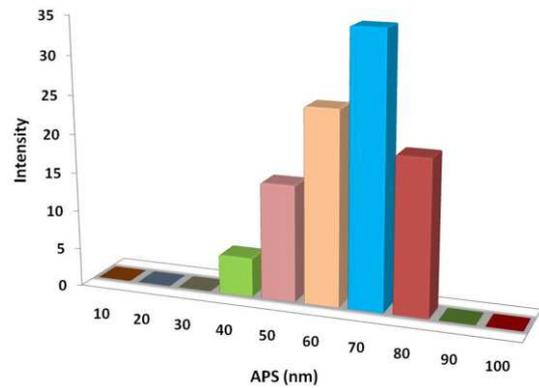
QuickFACTS

Product	:	Molybdenum Oxide Nanopowder
Stock No	:	NS6130-03-376
CAS	:	1313-27-5
Color	:	Yellow or Light Blue
Form	:	Powder
Symbol	:	MoO_3
Group	:	Molybdenum 6/Oxygen 16

Electronic Configuration:

Molybdenum [Kr] 4d5 5s1

Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

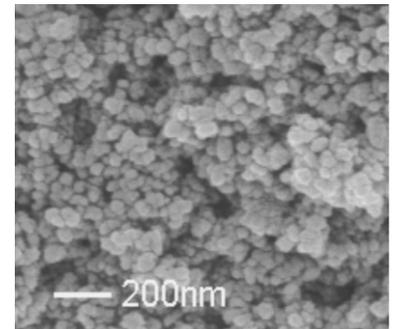
Stock No.	Purity	APS
NS6130-03-376	99.9%	<80nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
MoO_3	143.95 g/mol	4.69 g/cm ³	795 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	MoO_3	Other Metal
Molybdenum Oxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > Utilized in catalysis.
- > Employed as catalysts, cracking catalysts, and hydrogenation catalysts.
- > Used in the industrial production of acrylonitrile
- > Used in glass and ceramics production.
- > Serves as an additive to steel and corrosion-resistant alloys
- > Electrochemical applications
- > Pigment applications
- > In coatings, nanowires, nanofibers, plastics, and textiles



ISO 9001:2015
CERTIFIED COMPANY

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

NANOSHEL UK LIMITED
Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+91 9779 550077, 9779238252

+44 1782 454 144, +44 74 105 48802

+1 646 470 4911