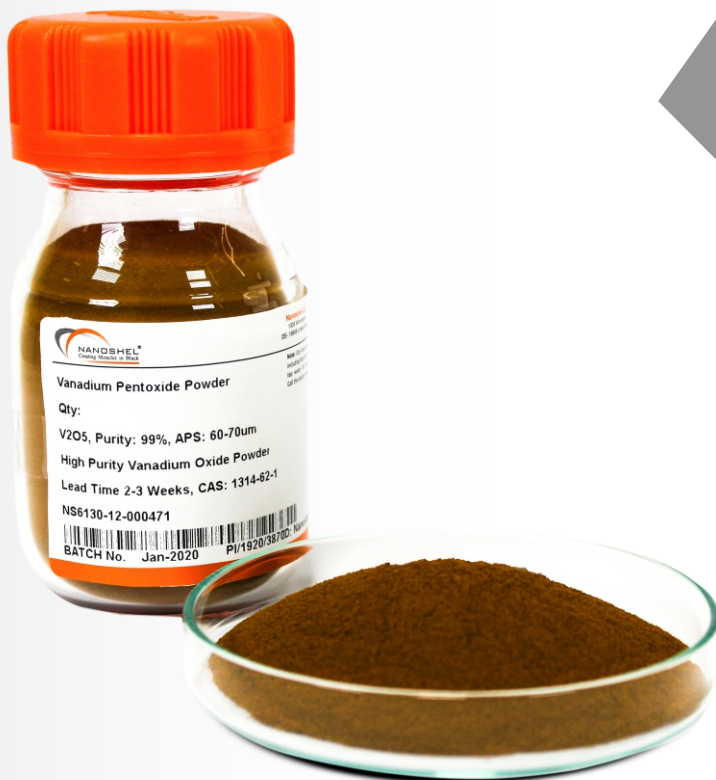


Vanadium Oxide Powder



NS6130-12-000471

APS
60-70 μ m



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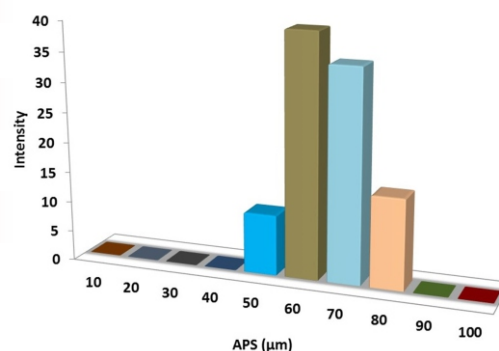
| www.nanoshel.com | sales@nanoshel.com

Vanadium Oxide Powder

Vanadium oxides are an ideal material platform for study how the electronic structure influences the electronic structure of a material undergoing slight structural change. Moreover, electrical properties, such as the electrical conductivity, carrier concentrations and electrical switching, have a great influence on employing the functional materials in many fascinating applications, including electrochemical applications, energy storage processes, thermoelectric devices and smart windows based on metal insulator transition (MIT) and so forth. Due to its high coefficient of thermal resistance, vanadium (V) oxide finds use as a detector material in bolometers and micro bolometer arrays for thermal imaging. It also finds application as an ethanol sensor in ppm levels (up to 0.1 ppm). Vanadium redox batteries are a type of flow battery used for energy storage, including large power facilities such as wind farms.

Quick Facts

Product	:	Vanadium Oxide Powder
Stock No	:	NS6130-12-000471
CAS	:	1314-62-1
Purity	:	99%
Color	:	Yellow
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
V ₂ O ₅	60-70μm	181.88 g/mol	690 °C

Chemical Composition

Product	Weight Percent (nominal)	
	V ₂ O ₅	Other Metal
Vanadium Oxide Powder	99%	0.1%

Applications

- In optical applications such as making of laser crystals
- In nanofiber and nanowire applications
- In the manufacture of some alloys and ceramics

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20ZICE4589C



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