

VANADIUM PENTOXIDE NANOPOWDER



Purity 99.9% V_2O_5

















VANADIUM PENTOXIDE NANOPOWDER

Vanadium oxide is an inorganic compound and its chemical formula is V2O5. It is amphoteric in nature. It is used as an excellent catalyst for industrial purposes. In metal-semiconductor transition there is abrupt change in optical and electrical properties. It is thermodynamically stable and also shows electrochromic properties. It is also used in the form of thin films and thin-films can be utilized in smart windows, optical filter, and reflectance mirrors. It is synthesized by sol-gel method. This oxide is widely used in thermal sensing and switching. This compound based material is exhibited different types of chromogenic effects and also utilized in nanomedicines, automotive. It exhibits multi-colored electrochromism and this permits the utilization in electrochromic displays color filters. It creates many compounds with oxygen and an oxide compound shows various structural, optical and chemical properties.

Quickfacts

Product: Vanadium Pentoxide Nanopowder

Stock No : NS6130-03-399

CAS : 1314-62-1

Color : Yellow - Orange

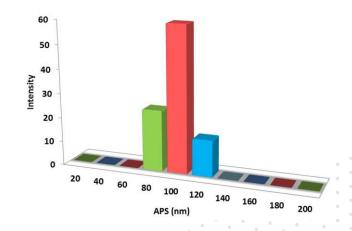
Form : Powder

Symbol : V_2O_5

Group: Vanadium 5/Oxygen 16

Electronic Configuration:

Vanadium [Ar] 3d3 4s2/Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

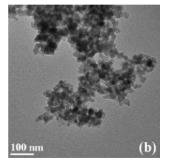
Stock No.	Purity	APS APS
NS6130-03-399	99.9%	80nm

TECHNICAL SPECIFICATION

1	Molecular Formula	Molecular Weight	Density	Melting Point
	V_2O_5	181.88 g/mol	3.36 g/cm ³	690 °C

CHEMICAL COMPOSITION

•	Product	Weight Percent (nominal)	
0		V_2O_5	Other Metal
•	Vanadium Pentoxide Nanopowder	99.9%	1000ppm



APPLICATIONS

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







ISO 9001:2015 CERTIFIED COMPANY