

VANADIUM PENTOXIDE

NANOPOWDER



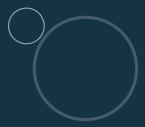












VANADIUM PENTOXIDE NANOPOWDER

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.

Quick FACTS

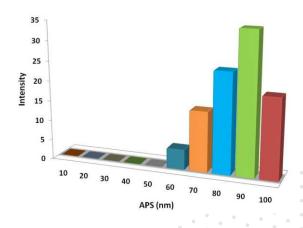
Product : Vanadium Pentoxide Nanopowder

Stock No : NS6130-12-000169

CAS : 1314-62-1

Color : Yellow - Orange

Form : Powder



ADDITIONAL POWDER CHARACTERISTICS

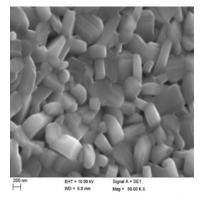
Stock No.	Purity	APS
NS6130-12-000169	99.9%	<100nm

TECHNICAL SPECIFICATION

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

CHEMICAL COMPOSITION

	Product	Weight Percent (nominal)	
•		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







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