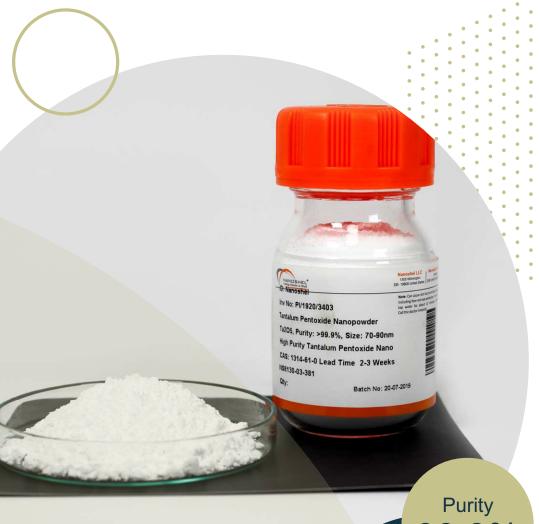


TANTALUM PENTOXIDE **NANOPOWDER**



Purity 99.9%

Ta₂O₅



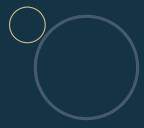












TANTALUM PENTOXIDE NANOPOWDER

Tantalum pentaoxide is an inorganic compound and its chemical formula is Ta2O5. This compound has high refractive index, high dielectric constant and low absorption property. Due to this property it is useful in coatings. Mostly it is insoluble in all solvents. It is used in capacitors because of its dielectric constant.

Tantalum pentaoxide has various applications in microelectronics and also in advanced catalyst. Moreover, it's used for storage energy. These nanoparticles are also employed in biomaterials in filled resins owing to its low toxicity, biocompatibility and chemical inertness. These are also anti-corrosive compound. Tantalite and columbite are minerals of tantalum pentaoxide. These are utilized in electronic circuitry, thin film components, cell phones and also in automotive electronics. This compaound has also applications in resistive switching memories

Quick FACTS

Product		Tantalum Pentoxide Nanopowder	
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Stock No : NS6130-03-381

CAS : 1314-61-0

Color : White

Form : Powder

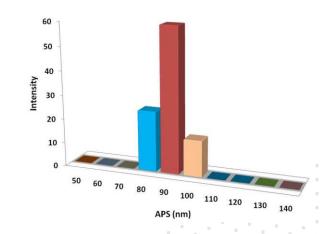
Symbol : Ta₂O₅

Group: Tantalum 4/Oxygen 16

Electronic Configuration:

Tantalum [Xe] 4f14 5d3 6s2

Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

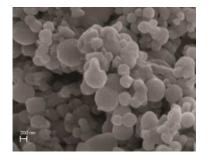
Stock No.	Purity	APS
NS6130-03-381	99.9%	70-90nm

TECHNICAL SPECIFICATION

• {	Molecular Formula	Molecular Weight	Density	Melting Point
	Ta₂O₅	441.893 g/mol	8.18 g/cm ³	1872 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)		
	Ta₂O₅	Other Metal	
Tantalum Pentoxide Nanopowder	99.9%	1000ppm	



APPLICATIONS

- > Dental imaging, CT Scans and X-rays
- > Coatings and plastics
- > Nanowires
- > Textiles and nanofibers
- > Alloys and catalyst applications







ISO 9001:2015 CERTIFIED COMPANY

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