

RUTHENIUM IV OXIDE NANOPOWDER



Purity
99.9%



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NS6130-12-000642

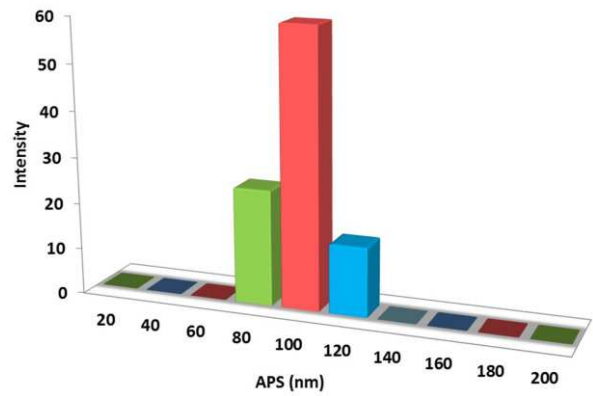
RUTHENIUM IV OXIDE NANOPOWDER

Ruthenium(IV) oxide is the inorganic compound and its formula is RuO_2 . It is mostly utilized as an electrocatalyst for manufacturing chlorine, chlorine oxides. It is the most versatile materials because of its magnificent diffusion barrier properties, high thermal stability and low temperature resistivity. It is known to have very high capacitance at low resistance, possibly making it suitable for construction of high energy, high power supercapacitors.

Ruthenium oxide has ample of applications for instance in resistors, electrochemical capacitors, electrode material for supercapacitor application either as single oxide or mixed oxide, gas sensors as well as catalysts. RuO_2 has high surface area and it is partially ordered structure exhibits high catalytic activity for the oxidation of CO to CO_2 at low temperature. The synthesis of ruthenium oxide has been achieved by distinct methods, such as thermal synthesis, combustion synthesis, sol-gel and precipitation.

QuickFACTS

Product	:	Ruthenium IV Oxide Nanopowder
Stock No	:	NS6130-12-000642
CAS	:	12036-10-1
Color	:	Black/Blue
Form	:	Powder
Symbol	:	RuO_2



ADDITIONAL POWDER CHARACTERISTICS

Stock No.	Purity	APS
NS6130-12-000642	99.9%	80-100nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
RuO_2	133.07 g/mol	6.97 g/cm ³	1200 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	RuO_2	Other Metal
Ruthenium IV Oxide Nanopowder	99.9%	1000ppm

APPLICATIONS

- > Resistors
- > Electrochemical capacitors
- > Electrode material
- > Gas sensors
- > Catalysts



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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