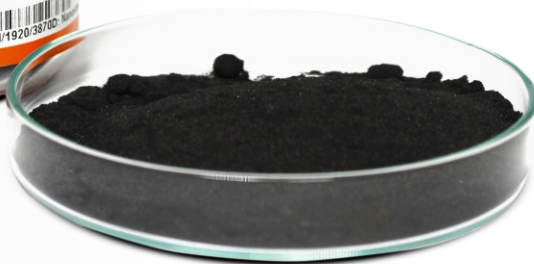
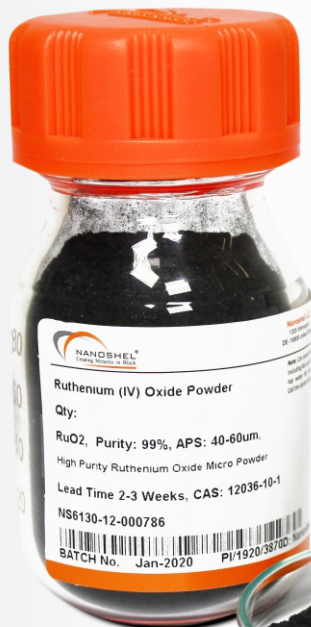


Ruthenium IV

Oxide Powder



APS
40-60 μ m

NS6130-12-000786



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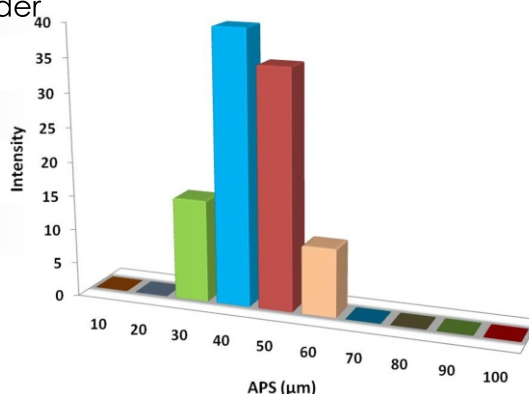
Ruthenium IV Oxide Powder

RuO₂ is extensively used for the coating of titanium anodes for the electrolytic production of chlorine and for the preparation of resistors or integrated circuits. Ruthenium oxide resistors can be used as sensitive thermometers in the temperature range. It can be also used as active material in super capacitor because has very high charge transfer capability. Ruthenium oxide has great capacity to store charge when used in aqueous solutions.

Ruthenium dioxide (RuO₂), owing to its high theoretical specific capacitance value (1400–2000 F g⁻¹), has been extensively recognized as a favourable material for super capacitor devices, but high production cost and agglomeration effects stand as high barriers preventing marketable usage. Consequently, RuO₂-based nanocomposites have been widely studied to optimize the material cost, with simultaneous improvement in the electrochemical performances.

Quick Facts

Product	:	Ruthenium IV Oxide Powder
Stock No	:	NS6130-12-000786
CAS	:	12036-10-1
Purity	:	99%
Color	:	Blue-Black
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
RuO ₂	40-60μm	133.06 g/mol	1200 °C

Chemical Composition

Product	Weight Percent (nominal)	
	RuO ₂	Other Metal
Ruthenium IV Oxide Powder	99%	0.1%

Applications

- Lithium ion batteries
- Super capacitors
- Catalysts

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