

# Rhenium

## Oxide Powder



NS6130-12-001035

APS  
40-60µm



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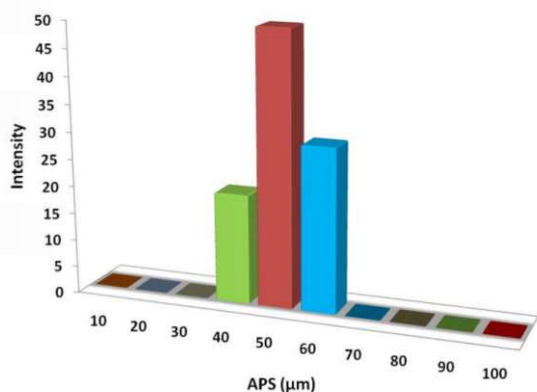
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# Rhenium Oxide Powder

Rhenium oxide exhibits high electronic conductivity, while its open cubic crystal structure allows an appreciable hydrogen intercalation, generating disordered solid phases, with protonic conductivity. The surface reactivity of  $\text{ReO}_3$  catalyzes reactions with the air moisture, leading to proton intercalation in the near surface layers and to the formation of disordered phases showing an appreciable ionic conductivity. Therefore, this compound can be interesting for several applications where electronic and ionic conductivities are concerned, for instance, in the field of solid state batteries, as well as in electro chromic devices

## Quick Facts

Product	:	Rhenium Oxide Powder
Stock No	:	NS6130-12-001035
CAS	:	1314-68-7
Purity	:	99.9%
Form	:	Powder



## Technical Specification

Formula	APS	Molecular Weight	Melting Point
$\text{Re}_2\text{O}_7$	40-60 $\mu\text{m}$	484.41g/mol	220°C

## Chemical Composition

Product	Weight Percent (nominal)	
	$\text{Re}_2\text{O}_7$	Other Metal
Rhenium Oxide Powder	99.9%	0.1%

**INTELLIGENT MATERIALS PVT LTD**  
Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

**NANOSHEL UK LIMITED**  
Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

**NANOSHEL LLC**  
3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911

ISO 9001:2015  
CERTIFIED COMPANY

