



# TUNGSTEN

TRIOXIDE POWDER

    /nanoshel

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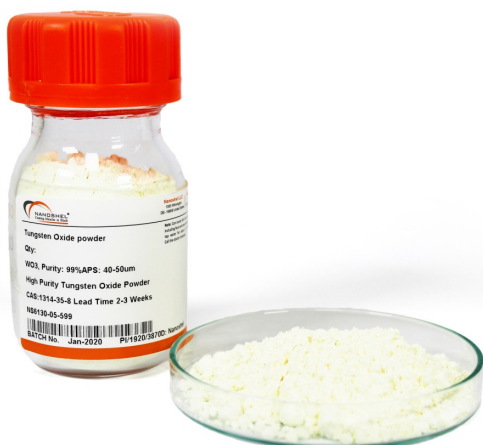
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# TUNGSTEN

## TRIOXIDE POWDER

Tungsten trioxide is used for many purposes in everyday life. It is frequently used in industry to manufacture tungstates for x-ray screen phosphors, for fireproofing fabrics and in gas sensors. Due to its rich yellow color, WO<sub>3</sub> is also used as a pigment in ceramics and paints. In recent years, tungsten trioxide has been employed in the production of electro chromic windows, or smart windows. These windows are

electrically switchable glass that change light transmission properties with an applied voltage. This allows the user to tint their windows, changing the amount of heat or light passing through. The other is to use the electrical tuning of the defect density in the WO<sub>3</sub> materials by the oxide leakage current control in order to modulate the enhancement factor of the SERS effect.

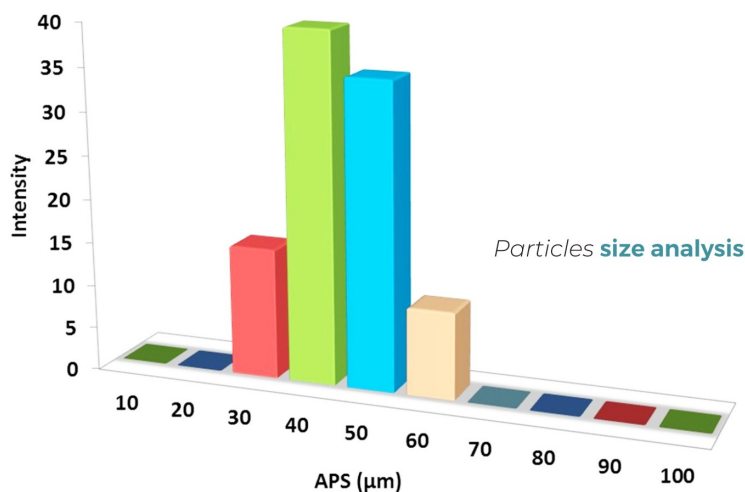


### Quick FACTS

Product	: Tungsten Trioxide Powder
Stock No	: NS6130-05-599
CAS	: 1314-35-8
Color	: Yellow to Lime-Green
Form	: Powder

# APPLICATIONS

- ✓ In the manufacture of conducting and semi-conducting materials
- ✓ In optics and mechanochemical applications.
- ✓ Electro chromic windows



## Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-05-599	99%	40-50μm

## Technical Specification

Molecular Formula	Molecular Weight	Melting Point
Wo <sub>3</sub>	231.85g/mol	1473°C

# Chemical Composition

Product	Weight Percent (nominal)	
	WO <sub>3</sub>	Other Metal
Tungsten Trioxide Powder	99%	0.1%

## Properties

- ✓ Chemical Formula: WO<sub>3</sub>
- ✓ CAS No.: 1314-35-8

## Ordering Information and Stock Availability

- ✓ Product: Tungsten Trioxide Powder
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

### Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

### Safety Recommendations

Download MSDS/SDS NS6130-05-507A

SDS are available from the Nanoshel

Website at

<https://www.nanoshel.com/sections/oxide-nanopowder>