

**NS6130-12-001818**

# TUNGSTEN NITRIDE

## Nanoparticles

### Quick Facts

Product	:	Tungsten Nitride Nanoparticles
Stock No	:	NS6130-12-001818
CAS	:	12058-38-7
Molecular Formula	:	(WN)/ (W3N2)
Form	:	Powder

**Purity**  
99.9%

### Technical Specification

Molecular Weight	Density	Melting Point	APS
197.85 g/mol	17.8 g/cm <sup>3</sup>	-	80-100nm

Tungsten nitride (W<sub>2</sub>N, WN, WN<sub>2</sub>) is an inorganic compound, a nitride of tungsten. It is used in microelectronics as a contact material, for conductive layers, and barrier layers between silicon and other metals, e.g. tungsten or copper. It is less commonly used than titanium nitride or tungsten films. Tungsten nitride (WN) is another film used for conductive layers or barrier layers within integrated circuit manufacturing. Its use is not as common as pure tungsten films or titanium nitride films but appears to have much promise in the future as geometries shrink.



**(WN)/ (W<sub>3</sub>N<sub>2</sub>)**  
APS 80-100nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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CERTIFIED COMPANY

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