

## Certificate of Analysis

Date of Testing: 2022-03-03 14:25:50  
Date of Next Testing: 2026-03-02 14:25:50  
Product Name: **Tungsten sulfide**  
CAS Number: 12138-09-9  
Specifications & Purity: 99.9% metals basis, 2 µm  
Lot #: B2223169  
SKU #: **T107763**  
Analysis: **063329**

Parameter	Limit Values	Result
Particle size	1-5 (µm)	1.17 µm
W(Gravimetric titration with cinchonine)	73-75.3 (%)	75.24 %
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.90 %
Total Metallic Impurities	0-2000 (ppm)	999.00 ppm
Appearance (T107763)	Dark Grey to Black Powder	Dark Grey to Black Powder
ICP: Confirms W and S Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager