

## Certificate of Analysis

Date of Testing: 2023-07-19 17:43:20  
Date of Next Testing: 2026-07-18 17:43:20  
Product Name: **Tungsten oxide (WO<sub>3</sub>-x) nanoparticle ink**  
CAS Number:  
Specifications & Purity: Particle size: ≤ 50 nm (BET), concentration: 2.5 wt.% in 2-propanol  
Lot #: G23131401  
SKU #: **T487449**  
Analysis: **247519**

Parameter	Limit Values	Result
Solid Content	2.4-2.6 (%)	2.60 %
particle size(BET)	0-50 (nm)	25.00 nm
Appearance(T487449)	Liquid	Liquid
ICP: Confirms Tungsten Component	Confirmed	Confirmed



John Su  
QA & QC Manager