

Certificate of Analysis

Date of Testing: 2023-05-19 14:47:50

Date of Next Testing: 2027-05-18 14:47:50

Product Name: **Titanium nitride**

CAS Number: 25583-20-4

Specifications & Purity: $\geq 99.9\%$ metals basis, 20nm

Lot #: E23081321

SKU #: **T110281**

Version: **0**

Analysis #: **188163**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.96 %
Particle size	10-30 (nm)	17.44 nm
Total Metallic Impuritie	0-2000 (ppm)	354.00 ppm
Ti(Gravimetric Analysis)	76.2-80.5 (%)	80.49 %
Appearance (T110281)	Brown to black powder	Brown to black powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager