

## Certificate of Analysis

Date of Testing: 2023-06-01 15:29:55  
Date of Next Testing: 2027-05-31 15:29:55  
Product Name: **Titanium nitride**  
CAS Number: 25583-20-4  
Specifications & Purity: 99.5% metals basis, 2-10  $\mu\text{m}$   
Lot #: E23261032  
SKU #: **T110282**  
**Analysis:** **149671**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Total Metallic Impurities	0-5000 (ppm)	2246.00 ppm
Particle size	2-10 ( $\mu\text{m}$ )	4.67 $\mu\text{m}$
Purity (Based On Trace Metals Analysis)	99.5-100 (%)	99.78 %
Ti (Gravimetric Analysis)	76.2-80.5 (%)	80.45 %
Appearance (T110282)	Brown to Very Dark Brown Powder	Brown to Very Dark Brown Powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager