

## Certificate of Analysis

Date of Testing: 2023-04-17 10:57:02  
Date of Next Testing: 2027-04-16 10:57:02  
Product Name: **Zirconium boride**  
CAS Number: 12045-64-6  
Specifications & Purity: 99.5% (metals basis excluding Hf), 1-3um  
Lot #: G1904162  
SKU #: **Z131682**  
Analysis: **212159**

Parameter	Limit Values	Result
Purity(metals basis excluding Hf)	99.5-100 (%)	99.95 %
Trace analysis of ICP	0-5000 (ppm)	463.00 ppm
Particle size	1-3 ( $\mu\text{m}$ )	2.99 $\mu\text{m}$
Appearance (Z131682)	Gray to Black powder or crystals	Gray to Black powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager