

## Certificate of Analysis

Date of Testing: 2023-03-20 12:34:02  
Date of Next Testing: 2027-03-19 12:34:02  
Product Name: **Zirconium(IV) chloride**  
CAS Number: 10026-11-6  
Specifications & Purity:  $\geq 99.9\%$  metals basis  
Lot #: C2316584  
SKU #: **Z109460**  
**Analysis:** **135212**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Total Metallic Impurities	0-1000 (ppm)	513.00 ppm
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.95 %
Cl(Titration by AgNO <sub>3</sub> )	60.2-61.5 (%)	60.21 %
Appearance (Z109460)	White to Light Yellow Powder or Chunks	White to Light Yellow Powder or Chunks
ICP: Confirms Zirconium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager