



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GLOBAL TUNGSTEN & POWDERS LLC
MATERIALS ANALYSIS LABORATORIES
1 Hawes Street
Towanda, PA 18848
Janet Otis Phone: 570 268 5536

CHEMICAL

Valid To: December 31, 2026

Certificate Number: 0342.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests for Refractory Powders, Parts and Wire, especially Tungsten and Molybdenum, Ceramics, other Inorganic Materials, including Waste Water and Solid Wastes:

<u>Test Technology</u>	<u>Test Methods</u>
<u>Chromatography</u> Ion (Fluoride, Chloride, Nitrate, Sulfate, Phosphate)	TCQ0587; SM 4100 B
<u>Electron Microscopy</u> SEM/EDS	TEQ0462; ASTM E1508
<u>Miscellaneous</u> Combustion (C <2%, S <2%) Free Carbon (C-free) Ignition Loss Inert Gas Fusion (H ₂ , N ₂ , O ₂)	TCQ0455; ASTM E1019 Method A TCQ0482; ASTM E1019 TCT1095; TCQ0446; ASTM E1019; ASTME1447
<u>Wet Chemistry Measurements</u> Specific Ion Electrode (Ammonia) Titrimetric (CN, CL, KOH, HCl, Ammonia, Normality, Alkalinity, Carbonate, Na ₂ CO ₃ assay) pH Conductivity	TCW1004; SM 4500-NH3 D TCQ0090 TCQ0221; TCP1042, TCP1043; EPA9045; SM4500-H+B TCW1043

<u>Test Technology</u>	<u>Test Methods</u>
<p><u>Spectroscopy</u></p> <p>Atomic Absorption - Flame (Ag, Al, Au, Ba, Ca, Cd, Co, Cr, Cu, Eu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Re, Si, Sr, V, W, Zn)</p> <p>Atomic Absorption - Graphite Furnace (As, Se)</p> <p>Cold Vapor Mercury Liquids</p> <p>Cold Vapor Mercury Solids</p> <p>DC Arc Optical Emission (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Si, Sn, Sr, Ta, Th, Ti, V, W, Zn, Zr)</p> <p>ICP Optical Emission (Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pd, Re, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, V, W, Y, Zn, Zr)</p> <p>Mass Spectrometry - Glow Discharge (All elements from Li – U by Atomic number)</p> <p>Thermogravimetric Analysis (TGA)</p> <p>Ultraviolet/Visible (Nitrite, Total Phosphate)</p> <p>X-ray Fluorescence - Wavelength Dispersive (All elements from Na – U by Atomic number)</p> <p>X-ray Diffraction</p>	<p>TCQ0014</p> <p>TCQ0023; EPA7060, EPA7740</p> <p>TCQ0311; EPA245.1, EPA7470</p> <p>TCQ0473; EPA7471</p> <p>TSQ0160, TSQ0198</p> <p>TCQ0572; EPA200.7, EPA6010</p> <p>TMQ0022, TMQ0225</p> <p>TCT1078</p> <p>TCQ0518; SM 4500-NO2-B; EPA365.3</p> <p>TFQ0011</p> <p>TDQ0022, TDQ0013</p>
<p><u>Chromatography</u></p> <p>GC</p> <p>GC (Gas Analyzer)</p>	<p>TCT1097</p> <p>TCD1015</p>





Accredited Laboratory

A2LA has accredited

GLOBAL TUNGSTEN & POWDERS LLC

Towanda, PA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 6th day of November 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0342.01
Valid to December 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.