



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GLOBAL TUNGSTEN & POWDERS CORP.
MATERIALS ANALYSIS LABORATORIES

1 Hawes Street
Towanda, PA 18848
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CHEMICAL

Valid To: December 31, 2020

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:

Test Technology

Test Methods

Chromatography

Ion (Fluoride, Chloride, Nitrate, Sulfate, Phosphate)

TCQ0587

Electron Microscopy

SEM/EDS

TEQ0462; ASTM E1508

Miscellaneous

Combustion (C <2%, S <2%)

TCQ0455; ASTM E1019 Method B

Inert Gas Fusion (H₂, N₂, O₂)

TCQ0446; ASTM E1019, E1447

Free Carbon (C-free)

TCQ0482; AST E1019

Ignition

TCT1095

Wet Chemistry Measurements

Specific Ion Electrode (Ammonia)

TCW1004

Titrimetric

TCQ0090

(CN, CL, KOH, HCl, Ammonia, Normality,
Alkalinity, Carbonate, Na₂CO₃ assay)

Spectroscopy

Atomic Absorption - Flame

TCQ0014

(Ag, Al, Au, Ba, Ca, Cd, Co, Cr, Cu, Eu, Fe, K, Li,
Mg, Mn, Mo, Na, Ni, Re, Si, Sr, V, W, Zn)

Test Technology

Test Methods

Spectroscopy (cont.)

Atomic Absorption - Graphite Furnace (As, Se)	TCQ0023
Cold Vapor Mercury Liquids	TCQ0311
Cold Vapor Mercury Solids	TCQ0473
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)	TSQ0016, TSQ00198
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)	TCQ0572
Mass Spectrometry - Glow Discharge (All elements from Li – U by Atomic number)	TMQ0022, TMQ0225
Ultraviolet/Visible (Nitrite, CN, Total Phosphate, Chloride)	TCQ0518
X-ray Fluorescence - Wavelength Dispersive (All elements from Na – U by Atomic number)	TFQ0011
X-ray Diffraction	TDQ0022, TDQ0013





Accredited Laboratory

A2LA has accredited

GLOBAL TUNGSTEN & POWDERS CORP.

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 27th day of February 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0342.01
Valid to December 31, 2020

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