

## SCOPE OF ACCREDITATION

### Materials Testing Laboratories

**Atlas Testing Laboratories**  
9820 6th St  
Rancho Cucamonga, CA 91730-5714

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: [www.eAuditNet.com](http://www.eAuditNet.com) - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

#### **AC7101/1 Rev G - Nadcap Audit Criteria for Materials Testing Laboratories – General Requirements for All Laboratories (to be used on audits on/after 5 May 2019)**

#### **AC7101/2 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Chemical Analysis (to be used on audits before 30 August 2020)**

(F) Atomic or Optical Emission Spectroscopy (AES or OES)

(F2) Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP–OES/AES)

(F3) Atomic Emission Spectroscopy – Spark/Arc (S/A–OES)

(G) Elemental Analysis (Combustion or Fusion)

(G1) – Carbon

(G2) – Hydrogen

(G3) – Nitrogen

(G4) – Oxygen

(G5) – Sulfur

(W) Atomic Absorption

(W2) Graphite Furnace (GFAA)

Specify the Alloy Base for Accreditation

Al Base

Co Base

Cu Base

Fe Base

Mg base

Ni Base

Ti Base

#### **AC7101/3 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Mechanical Testing (to be used on audits on/after 4 December 2016)**

(A) Room Temperature Tensile

(B) Elevated Temperature Tensile

- (C) Stress Rupture
- (CT) Compression Testing
- (N) Impact
- (P) Fracture Toughness
- (XN) Bend Testing

**AC7101/4 Rev F - Nadcap Audit Criteria for Materials Testing Laboratories – Metallography and Microindentation Hardness (to be used on/after 14 August, 2016)**

- (L0) Metallographic Evaluation
- (L1) Microindentation (Interior)
- (L10) Near Surface Examinations – Carburization / Decarburization
- (L11) Grain Size
- (L12) Inclusion Rating
- (L2) Near Surface Examinations – Alloy Depletion
- (L3) Near Surface Examinations – Oxidation/Corrosion
- (L5) Near Surface Examinations – Microindentation (Surface–Case Depth)
- (L5X) Near Surface Examinations – Microindentation (Surface) (Chord Method ARP1820)
- (L6) Near Surface Examinations – Nitriding
- (L7) Near Surface Examinations – IGA, IGO
- (L8) Near Surface Examinations – Alpha Case: Wrought Titanium
- (XL) Macro Examination

**AC7101/5 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Hardness Testing (Macro) (to be used on audits on/after 22 March 2015)**

- (M1) Brinell Hardness
- (M2) Rockwell Hardness

**AC7101/6 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Corrosion (to be used on/after 1 July 2018)**

- (Q) Salt Spray
- (Q1) Detecting susceptibility to intergranular attack in austenitic stainless steel
  - (Q1–1) Oxalic Acid Etch Test
  - (Q1–2) Ferric Sulfate–Sulfuric Acid Test “Streicher test” (mass loss)
  - (Q1–3) Nitric Acid Test “Huey test” (mass loss)
  - (Q1–4A) Copper–Copper Sulfate– 16% Sulfuric Acid Test “Strauss test” (bend test)
  - (Q1–5) Copper–Copper Sulfate–50 % Sulfuric Acid Test (mass loss)
- (Q2–1) ASTM G 49
- (Q2–3) ASTM G 38
- (Q3) ASTM G 34

**AC7101/7 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Mechanical**

**Testing Specimen Preparation (to be used on audits on/after 15 May 2016)**

- (Z) Standard Specimen Machining
- (Z3) Cast Specimens

**AC7101/9 Rev C - Nadcap Audit Criteria for Materials Testing Laboratories – Specimen Heat Treating (to be used on/after 15 January 2017)**

**AC7101/11 Rev C - Nadcap Audit Criteria for Materials Testing Laboratories – Fastener Testing (to be used on audits on/after 25 October 2015)**

- (10) Stress Rupture
- (11) Fatigue
- (13) Shear Strength – Double Shear
- (14) Stress Durability – Internal Threads
- (18) Tensile Test – Elevated Temperature Tensile
- (31) Torque – Locking, Torque–Out
- (40L10) Metallography – Decarburization / Carburization
- (40L2) Metallography – Alloy Depletion
- (40L25) Metallography – Grain Size
- (40L3) Metallography – Oxidation / Corrosion
- (40L7) Metallography – IGA / IGO
- (40L8) Metallography –Alpha Case: Wrought Titanium
- (5) Stress Durability – External Threads
- (6–L5) Hardness – Microindentation Hardness
- (6–M2) Hardness – Rockwell
- (8–A) Tensile Test – Axial Tensile
- (8–P) Tensile Test – Proof Load (nuts / screws)
- (8–W) Tensile Test – Wedge Tensile
- (Q) Corrosion – Salt Spray

**ISO/IEC - Currently accredited by an ILAC approved source**

**Lab Type - Lab Type**

Independent