



*In accordance with SAE Aerospace Standard AS7003, to the revision in effect at the time of the audit, this certificate is granted and awarded by the authority of the Nadcap Management Council to:*

## **Connecticut Metallurgical Inc**

*100 Prestige PK  
East Hartford, CT 06108  
United States*

*This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:*

## **Materials Testing**

Certificate Number: 3582137302  
Expiration Date: 31 January 2013

A handwritten signature in black ink, appearing to read "Joseph G. Pinto".

*Joseph G. Pinto, Vice President and Chief Operating Officer*

## SCOPE OF ACCREDITATION Materials Testing

**Connecticut Metallurgical Inc**  
100 Prestige PK  
East Hartford, CT 06108

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:

### **AC7006 Rev G - Audit Criteria Equivalent to ISO/IEC 17025**

#### Chemical Analysis

CH- Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP) / ASTM E1479

CH- Elemental Analysis (Combustion or Fusion) – Carbon / ASTM E1019

CH- Elemental Analysis (Combustion or Fusion) – Nitrogen / ASTM E1019

CH- Elemental Analysis (Combustion or Fusion) – Sulfur / ASTM E1019

#### Mechanical Testing

M- Bend Testing / ASTM E290

M- Carbide Network / ASTM A262 Practice A

M- Carbide Network – Decarburization / ASTM E1077

M- Creep / ASTM E139

M- Elevated Temperature Tensile / ASTM E21

M- Fastener Testing / ASTM A370

M- Fastener Testing / ASTM F606

M- Fastener Testing / SAE J429

M- Hardness Testing – Rockwell Hardness / ASTM E18

M- Metallography – Alpha Case / GE P3TF19

M- Metallography – Alpha Case / PWA E142

M- Metallography – Alpha Case: Wrought / AMS T9046

M- Metallography – Braze Evaluations / Various ASME, ANSI, AWS, and Mil

#### Stds

M- Metallography – Decarburization / ASTM E2

M- Metallography – Decarburization / ASTM E3

M- Metallography – Decarburization / ASTM E384

M- Metallography – Effective Case Depth / ASTM E384

M- Metallography – General / AMS 2315

M- Metallography – General / ASTM E112

#### Americas

+ 1 724 772 1616

#### Asia

+ 86 10 6461 9807

#### Europe

+44 870 350 5011

[www.pri-network.com](http://www.pri-network.com)

M– Metallography – General / ASTM E45  
 M– Metallography – Grain Size (Nickel Alloys) / ASTM E112  
 M– Metallography – Grain Size (Nickel Alloys) / ASTM E930  
 M– Metallography – Grain Size (Nickel Alloys) / GE E50TF133  
 M– Metallography – Grain Size / ASTM E112  
 M– Metallography – Grain Size / ASTM E1181  
 M– Metallography – Grain Size / ASTM E930  
 M– Metallography – IGA/IGO  
 M– Metallography – Inclusion Rating / ASTM E45  
 M– Metallography – Intergranular Attack / ASTM A262, Practice A & E  
 M– Metallography – Macroetching / ASTM E3  
 M– Metallography – Macroetching / ASTM E340  
 M– Metallography – Macroetching / ASTM E381  
 M– Metallography – Microetching / ASTM E407  
 M– Metallography – Oxidation  
 M– Microhardness / ASTM B578  
 M– Microhardness Testing, Knoop / ASTM E384  
 M– Microhardness Testing, Vickers / ASTM E384  
 M– Room Temperature Tensile / ASTM E8  
 M– Salt Spray (Fog) / ASTM B117  
 M– Shear Strength / ASTM B565  
 M– Shear Strength / ASTM B769  
 M– Stress Rupture / ASTM E139  
 M– Stress Rupture / ASTM E292  
 M– Tensile Testing Fasteners MTP / ASTM  
 M– Tensile Testing Fasteners MTP / ASTM E8  
 M– Tensile Testing Fasteners MTP / ASTM F606  
 M– Tensile Testing Fasteners MTP / ASTM F835  
 M– Tensile Testing Fasteners MTP / NASM 1312–8  
 M– Torque / NASM1312–31

**AC7101/1 Rev E - Nadcap Audit Criteria for Materials Testing Laboratories – General Requirements for All Laboratories (to be used on/After 28 August, 2011)**

**AC7101/2 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Chemical Testing (to be used on/after 28 August, 2011)**

(F2) Atomic Emission Spectroscopy – Inductively Coupled Plasma  
 (ICP–OES/AES)  
 (G1) Elemental Analysis – Carbon  
 (G3) Elemental Analysis – Nitrogen  
 (G5) Elemental Analysis – Sulfur  
 Al Base  
 Co Base  
 Cu Base  
 Fe Base, High Alloy

Fe Base, Low Alloy

Ni Base

Ti Base

**AC7101/3 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing (to be used on/after 28 August, 2011)**

- (A) Room Temperature Tensile
- (B) Elevated Temperature Tensile
- (C) Stress Rupture
- (XA) Creep
- (XN) Bend Testing

**AC7101/4 Rev D - Nadcap Audit Criteria for Materials Test Laboratories – Metallography and Microhardness (to be used on/after 28 August, 2011)**

- (L) Metallography (General)
- (L1) Microindentation (Interior)
- (L2) Near Surface Examinations – Alloy Depletion
- (L5) Near Surface Examinations – Microindentation (Surface)
- (L6) Near Surface Examinations – Nitriding
- (L7) Near Surface Examinations – IGA, IGO
- (L8) Near Surface Examinations – Alpha Case: Wrought Titanium
- (XL) Metallography (Macro)

**AC7101/5 Rev C - AC7101/5 – Nadcap Audit Criteria for Materials Test Laboratories – Hardness (to be used on/after 28 August, 2011)**

- (M2) Rockwell Hardness

**AC7101/6 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Corrosion (to be used on/after 28 August, 2011)**

- (Q) Corrosion (General)
- (Q1) Stress Corrosion

**AC7101/9 Rev B - Nadcap Audit Criteria for Materials Test Laboratories – Heat Treating (to be used on/after 28 August, 2011)**

**AC7101/11 Rev B - Nadcap Audit Criteria for Materials Test Laboratories - Fastener Testing**

**AC7109/5 Rev D - Nadcap Audit Criteria for Coating Evaluations (Shop Floor and Laboratory (Req'd for all Coatings audits - except suppliers using Nadcap approved AC7109/5 labs)**

- Hardness – Rockwell
- Metallography/Microstructure
- Microindentation Hardness – Vickers
- Specimen Preparation
- Thickness – Metallographic

**AC7110/13 Rev A - Nadcap Audit Criteria for Metallographic Evaluation of Welds**

Metallurgical Evaluation of Electron Beam / Laser Welds (identify if this process is used)

Metallurgical Evaluation of Fusion Welds (identify if this process is used)

Metallurgical Evaluation of Resistance Welds (identify if this process is used)

Metallurgical Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

**Lab Type - Lab Type**

Independent