

Merit

Merit



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Magnetic Inspection Laboratory Inc.

**1401 Greenleaf Avenue
Elk Grove Village, IL 60007-5522
United States**

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

Chemical Processing

Certificate Number: 3487185769
Expiration Date: 31 October 2021
Accreditation Length: 24 Months



Michael J. Hayward
Executive Vice President & Chief Operating Officer

Merit

Merit

SCOPE OF ACCREDITATION

Chemical Processing

Magnetic Inspection Laboratory Inc.
1401 Greenleaf Avenue
Elk Grove Village, IL 60007-5522

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: 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:

AC7108 Rev I - Nadcap Audit Criteria for Chemical Processing (to be used on audits on/after 21 January 2018)

AC7108/02 – Etch Inspection – AC7108/2 must also be selected

AC7108/04 – Solution Analysis and Testing – AC7108/4 must also be selected

AC7108/05 – Chem Milling and Alpha Case Removal – AC7108/5 must also be selected

AC7108/08 – Anodizing (Not for Metal Bond) – AC7108/8 must also be selected

AC7108/09 – Electroplating and Electroforming – AC7108/9 must also be selected

AC7108/11 – Conversion Coating – AC7108/11 must also be selected

AC7108/12 – Acid Cleaning, Descaling, Passivation and Electropolishing – AC7108/12 must also be selected

AC7108/14 – Stripping of Coatings as a Subcontract Process – AC7108/14 must also be selected

AC7108/15 – Pre-Penetrant Etch – AC7108/15 must also be selected

General Cleaning and Pre-Cleaning

Alkaline Cleaning (If Titanium Alkaline Cleaning is also carried out then please check Chemical Cleaning – Titanium Cleaning – Alkaline” also)

Emulsion Cleaning

Semi-Aqueous Cleaning

Solvent Cleaning

Titanium Cleaning – Alkaline

Other Titanium Cleaning Alkaline

Ovens Used for Thermal Treatments at a Set Point above 250°F

Ovens for Thermal Treatments with a set point at or below 250°F (121°C) or for Miscellaneous Heating Processes, e.g. Part Drying.

Stripping of Coatings as an Internal Rework Process

Inorganic Coatings

Other Stripping

Organic Coatings

AC7108/2 Rev F - Nadcap Audit Criteria for Etch Inspection Processes (Anodic Etch, Blue

Etch, Anodize, Local, Macrostructure, Nital/Temper)

Nital/Temper Etch

- Immersion
- Local Swab

AC7108/4 Rev C - Nadcap Audit Criteria for Solution Analysis and Testing in Support of Chemical Processing to AC7108 (To Be Used On Audits Conducted On audits on/after 21 January 2018)

Solution Analysis In Support of AC7108

Testing Performed Internally In Support of the Chemical Process Accreditation

- B05 – Salt Spray Testing In Support of AC7108
- B06 – Water Immersion / Humidity Testing In Support of AC7108
- B09 – Taber Wear Testing In Support of AC7108
- B10 – Adhesion Testing (Adhesion Tape Testing) In Support of AC7108
- B12 – Adhesion Testing (Bend Test) In Support of AC7108
- B13 – Coating Weight Testing In Support of AC7108
- B14 – Conductivity Testing In Support of AC7108
- B15 – Resistivity Testing In Support of AC7108
- B16 – Coating Thickness Measurement In Support of AC7108
- B21 – Paint Color and Gloss Testing In Support of AC7108
- B23 – Other Testing In Support of AC7108

AC7108/5 Rev B - Nadcap Audit Criteria for Alpha Case Removal and Chemical Milling (to be used on audits on/after 5 June 2016)

Alpha Case Removal

Chemical Milling Steels

Chemical Milling Titanium Alloys

AC7108/8 - Nadcap Audit Criteria for Anodizing (Not For Metal Bond) (to be used on audits on/after 5 June 2016)

Anodize Aluminum, Chromic Acid

Anodize Aluminum, Hard Anodize

Anodize Aluminum, Sulfuric Acid

Anodizing Aluminum, Type 1 Non-Hexavalent Chrome (e.g. Boric/Sulfuric)

Dye

Seal

AC7108/9 - Nadcap Audit Criteria for Electroplating and Electroforming (to be used on audits on/after 5 June 2016)

Electroplating

- Cadmium Plating

AC7108/11 - Nadcap Audit Criteria for Conversion Coating (to be used on audits on/after 5 June 2016)

Aluminum
Aluminum, Non–Hexavalent Chrome Alternatives
Copper
Steel
Titanium

AC7108/12 - Nadcap Audit Criteria for Acid Cleaning, Descaling, Passivation and Electropolishing (to be used on audits before 12 July 2020)

Acid Cleaning (If Titanium Acid Cleaning is also carried out then please check “Chemical Cleaning – Titanium Cleaning – Acid” also)
Electropolishing
Steels
Passivation
Titanium Cleaning – Acid (This process also requires “Chemical Cleaning – Titanium Cleaning – Alkaline” to also be checked unless customer specifications permit otherwise)

AC7108/14 - Nadcap Audit Criteria for Stripping of Coatings as a Sub-Contract Process (Only select AC7108/14 if stripping is done as an overhaul process or as a sub-contract process. It is not required for internal rework.)

AC7108/15 Rev A - Nadcap Audit Criteria for Pre-Penetrant Etch (to be used on audits on/after 14 October 2018)

Immersion Pre–Penetrant Etch
Local (Swab) Pre–Penetrant Etch

Merit

Merit



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Magnetic Inspection Laboratory Inc.

*1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536
United States*

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

Chemical Processing

Certificate Number: 10392185770
Expiration Date: 31 October 2021
Accreditation Length: 24 Months



Michael J. Hayward
Executive Vice President & Chief Operating Officer

Merit

Merit

SCOPE OF ACCREDITATION

Chemical Processing

Magnetic Inspection Laboratory Inc.
1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: 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:

AC7108 Rev I - Nadcap Audit Criteria for Chemical Processing (to be used on audits on/after 21 January 2018)

AC7108/01– Painting Dry Film Coatings and Sol Gel as a Preparation for Paint – AC7108/1 must also be selected

AC7108/04 – Solution Analysis and Testing – AC7108/4 must also be selected

AC7108/14 – Stripping of Coatings as a Subcontract Process – AC7108/14 must also be selected

Stripping of Coatings as an Internal Rework Process

Inorganic Coatings

Other Stripping

Organic Coatings

AC7108/1 Rev C - Nadcap Audit Criteria for Painting & Dry Film Coatings (to be used on audits before 12 July 2020)

Dry Film Lubricant Coatings

Painting

AC7108/4 Rev C - Nadcap Audit Criteria for Solution Analysis and Testing in Support of Chemical Processing to AC7108 (To Be Used On Audits Conducted On audits on/after 21 January 2018)

Testing Performed Internally In Support of the Chemical Process Accreditation

B10 – Adhesion Testing (Adhesion Tape Testing) In Support of AC7108

B16 – Coating Thickness Measurement In Support of AC7108

B21 – Paint Color and Gloss Testing In Support of AC7108

B22 – Solvent Resistance Testing In Support of AC7108

AC7108/14 - Nadcap Audit Criteria for Stripping of Coatings as a Sub-Contract Process (Only select AC7108/14 if stripping is done as an overhaul process or as a sub-contract process. It is not required for internal rework.)

Merit

Merit



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Magnetic Inspection Laboratory Inc.

*1401 Greenleaf Avenue
Elk Grove Village, IL 60007-5522
United States*

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

NonDestructive Testing

Certificate Number: 3487187069
Expiration Date: 31 July 2021
Accreditation Length: 18 Months



Michael J. Hayward
Executive Vice President & Chief Operating Officer

Merit

Merit

SCOPE OF ACCREDITATION

NonDestructive Testing

Magnetic Inspection Laboratory Inc.
1401 Greenleaf Avenue
Elk Grove Village, IL 60007-5522

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: 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:

AC7114 Rev M - Nadcap Audit Criteria for NonDestructive Testing (NDT) Suppliers Accreditation (to be used on audits before 5 January 2020)

AC7114S Rev N - Nadcap Supplemental Audit Criteria for NonDestructive Testing (NDT) Suppliers Accreditation Program (to be used on audits before 05 January 2020))

S-U1 Honeywell
S-U10 GE
S-U11 The Boeing Company
S-U14 SAFRAN
S-U16 Bell Helicopter
S-U17 Sikorsky
S-U18 Hamilton Sundstrand
S-U2 Pratt & Whitney
S-U21 Eaton
S-U4 Lockheed Martin
S-U6 Rolls-Royce Corporation (refer to U3 Supplemental questions)
S-U9 Textron Aviation

AC7114/1 Rev L - Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey (to be used on audits before 5 January 2020)

AC7114/1S Rev M - Nadcap Supplemental Audit Criteria for Penetrant Suppliers Accreditation Program (to be used on audits before 05 January 2020)

S-U1 Honeywell
S-U10 GE
S-U11 The Boeing Company
S-U14 SAFRAN
S-U16 Bell Helicopter
S-U17 Sikorsky

S-U18 Hamilton Sundstrand
S-U2 Pratt & Whitney
S-U21 Eaton
S-U4 Lockheed Martin
S-U6 Rolls-Royce Corporation (refer to U3 Supplemental questions)
S-U9 Textron Aviation

**AC7114/2 Rev L - Nadcap Audit Criteria for NonDestructive Testing Magnetic Particle Survey
(to be used on audits before 5 January 2020)**

**AC7114/2S Rev M - Nadcap Supplemental Audit Criteria for NonDestructive Testing Magnetic
Particle Survey (to be used on audits before 05 January 2020)**

S-U1 Honeywell
S-U10 GE
S-U11 The Boeing Company
S-U16 Bell Helicopter
S-U17 Sikorsky
S-U18 Hamilton Sundstrand
S-U2 Pratt & Whitney
S-U21 Eaton
S-U4 Lockheed Martin
S-U6 Rolls-Royce Corporation (refer to U3 Supplemental questions)
S-U9 Textron Aviation

**AC7114/4 Rev L - Nadcap Audit Criteria for NonDestructive Testing Facility Film Radiography
Survey (to be used on audits before 5 January 2020)**

**AC7114/4S Rev M - Nadcap Supplemental Audit Criteria for NonDestructive Testing Facility
Film Radiography Survey (to be used on audits before 5 January 2020)**

S-U1 Honeywell
S-U10 GE
S-U11 The Boeing Company
S-U14 SAFRAN
S-U16 Bell Helicopter
S-U17 Sikorsky
S-U18 Hamilton Sundstrand
S-U2 Pratt & Whitney
S-U21 Eaton
S-U4 Lockheed Martin
S-U6 Rolls-Royce Corporation (refer to U3 Supplemental questions)
S-U9 Textron Aviation

Merit

Merit



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Magnetic Inspection Laboratory Inc.

*1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536
United States*

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

Welding

Certificate Number: 10392181786
Expiration Date: 30 April 2021
Accreditation Length: 24 Months



Michael J. Hayward
Executive Vice President & Chief Operating Officer

Merit

Merit

SCOPE OF ACCREDITATION

Welding

Magnetic Inspection Laboratory Inc.
1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: 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:

AC7110 Rev F - Nadcap Audit Criteria for Welding/ Torch and Induction Brazing and Additive Manufacturing (This is required for all Welding / Torch and Induction Brazing and Additive Manufacturing audits) (to be used on audits on/after 30 April 2017)

AC7110/1 Rev H - Nadcap Audit Criteria for Brazing (Torch/Induction) (to be used on audits on/after 7 August 2016)

Baseline (All audits)

Supplement A – Torch (Additional requirements)

Supplement E – GTA Tack Welding (Additional requirements)

Supplement G – Processes using gas (Additional requirements)

Supplement H – Processes using Flux – (Additional requirements)

AC7110/5 Rev H - Nadcap Audit Criteria for Fusion Welding (to be used on audits before 6 Jan 2019)

Baseline (All audits)

Supplement D – Material – Additional requirements for titanium welding

Supplement E – Foundry in-process completion / repair welding of castings (Additional Requirements)

Supplement F – Filler Materials (Additional requirements)

Supplement G – Processes using Gas (For example GTAW, PAW) (Additional requirements)

Supplement H – Preheat / Interpass temperature control (Additional requirements)

Supplement I – Stress Relieve (Additional requirements)

Supplement J – Tack Welding (Additional requirements)

AC7110/5S Rev E - Nadcap Supplemental Audit Criteria for Fusion Welding (to be used audits before 5 May 2019)

U1 Honeywell

U10 GE Aviation

U11 The Boeing Company

t frm 17

17-Jun-10

AC7110/12 Rev F - Nadcap Audit Criteria for Welder/Welding Operator Qualification (This checklist is required if the audit includes AC7110/3, /5 or /6)

Baseline (All audits)

AC7110/12S Rev H - Nadcap Supplemental Audit Criteria for Welder/Welding Operator Qualification (This checklist is required if the audit includes AC7110/3, /5 or /6) (to be used on audits on/after 4 September, 2016)

U1 Honeywell

U10 GE Aviation

U11 The Boeing Company

Merit

Merit



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Magnetic Inspection Laboratory Inc.

*1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536
United States*

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

Surface Enhancement

Certificate Number: 10392193548
Expiration Date: 30 April 2021
Accreditation Length: 18 Months



Michael J. Hayward
Executive Vice President & Chief Operating Officer

Merit

Merit

SCOPE OF ACCREDITATION

Surface Enhancement

Magnetic Inspection Laboratory Inc.
1225 Greenleaf Ave
Elk Grove Village, IL 60007-5536

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: 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:

**AC7117 Rev C - Nadcap Audit Criteria for Shot Peening, Peen Forming, Glass Bead Peening
(to be used on audits on/after 17 June 2018)**

S-U00 None

S-U11 The Boeing Company

**AC7117/2 Rev B - Nadcap Audit Criteria for Automated Peening (to be used on audits on/after
9 July 2017)**

S-U00 None

S-U11 The Boeing Company