

Merit

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

Paulo - Cleveland

*4428 Hamann Pkwy
Willoughby, OH 44094-5628
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:

Heat Treating

Certificate Number: 3333205690
Expiration Date: 29 February 2024
Accreditation Length: 24 Months

Jay Solomond
Executive Vice President & Chief Operating Officer

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SCOPE OF ACCREDITATION

Heat Treating

Paulo - Cleveland
4428 Hamann Pkwy
Willoughby, OH 44094-5628

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:

AC7000 - AUDIT CRITERIA FOR NADCAP ACCREDITATION

AC7101/4 Rev F - Nadcap Audit Criteria for Materials Testing Laboratories-Metallography & Microindentation Hardness (to be used on audits on/after 14 August 2016)*** If the Auditee holds any MTL accreditation, then this checklist must be done as part of an MTL audit

(L0) Metallography Evaluation

Industry Spec – Other L0

(L1) Microindentation (Interior)

(L10) Near Surface Examinations – Carburization/Decarburization

(L5X) Near Surface Examinations – Microindentation (Surface) (Chord Method ARP1820)

(L7) Near Surface Examinations – IGA, IGO

AC7102 Rev K - Nadcap Audit Criteria for Heat Treating Baseline (AC7102/S and AC7102/8 must also be selected) (to be used on audits on or after 15-Aug-2021)

Brazing – AC7102/1 must also be selected

Hot Isostatic Pressing (HIP) – AC7102/6 must also be selected

Nickel and Cobalt Alloys – Industry Specs – Check any applicable boxes

Nickel and Cobalt Alloys– Customer Specs

Stainless Steels, Austenitic – Customer Specs

Stainless Steels, Austenitic – Industry Specs – Check any applicable boxes

Stainless Steels, Martensitic – Customer Specs

Stainless Steels, Martensitic – Industry Specs – Check any applicable boxes

Stainless Steels, Precipitation Hardening – Customer Specs

Stainless Steels, Precipitation Hardening – Industry Specs – Check any applicable boxes

Titanium Alloys – Customer Specs

Titanium Alloys – Industry Specs – Check any applicable boxes

Vacuum Heat Treating – Customer Specs

Vacuum Heat Treating – Industry Specs – Check any applicable boxes

AC7102S Rev J - Nadcap Supplemental Audit Criteria for Heat Treating (to be used on audits on/after 31 May 2020)

U10 GE Aviation
U14 SAFRAN Group
U18 United Technologies Corp. – Hamilton Sundstrand
U3 Rolls–Royce
U7 MTU Aero Engines GmbH

AC7102/1 Rev F - Nadcap Audit Criteria for Heat Treating - Brazing (to be used on audits on/after 10 July 2016)

Atmosphere Brazing – Customer
Atmosphere Brazing – Industry Specs – Check any applicable boxes
Vacuum Brazing – Customer Specs
Vacuum Brazing – Industry Specs – Check any applicable boxes

AC7102/5 Rev E - Nadcap Audit Criteria for Heat Treating - Hardness and/or Conductivity Testing (to be used on on/after 5 May 2019)

Hardness – Rockwell – Check any applicable boxes

AC7102/6 - Nadcap Audit Criteria for Heat Treating for Hot Isostatic pressing (HIP)

Hot Isostatic Pressing (HIP) – Customer Specs

AC7102/8 Rev A - Nadcap Audit Criteria for Heat Treating Pyrometry (to be used on audits on/after 15-Aug-2021)

Pyrometry – Customer Specs
Pyrometry – Industry Specs – Check any applicable boxes
AMS2750