



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

Engineered Heat Treat Inc.

*31271 Stephenson Highway
Madison Heights, MI 48071
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: 3341193517
Expiration Date: 30 November 2021
Accreditation Length: 12 Months

David L. Schutt, PhD
President

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527

SCOPE OF ACCREDITATION

Heat Treating

Engineered Heat Treat Inc.
31271 Stephenson Highway
Madison Heights, MI 48071

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:

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)
 - Industry Spec – Other L1
- (L10) Near Surface Examinations – Carburization/Decarburization
- (L11) Grain Size
- (L5) Near Surface Examinations – Microindentation (Surface Case Depth)
 - Industry Spec – Other L5
- (L5X) Near Surface Examinations – Microindentation (Surface) (Chord Method ARP1820)
- (L6) Near Surface Examinations – Nitriding
- (L7) Near Surface Examinations – IGA, IGO

AC7102 Rev J - Nadcap Audit Criteria for Heat Treating Baseline (AC7102/S and AC7102/8 must also be selected) (to be used on audits on/after 3 December 2017)

- Beryllium Copper – Industry Specs – Check any applicable boxes
 - Industry Spec – Other
- Beryllium/Copper– Customer Specs
- Carburizing – AC7102/3 must also be selected
- Nickel and Cobalt Alloys – Industry Specs – Check any applicable boxes
 - Industry Spec – Other
- Nickel and Cobalt Alloys– Customer Specs
- Nitriding – AC7102/4 must also be selected
- Stainless Steels, Austenitic – Industry Specs – Check any applicable boxes
 - Industry Spec – Other
- Stainless Steels, Austenitic– Customer Specs
- Stainless Steels, Martensitic – Customer Specs

Stainless Steels, Martensitic – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Stainless Steels, Precipitation Hardening – Customer Specs
Stainless Steels, Precipitation Hardening – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Steels – Customer Specs
Steels – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Stress Relieve – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Titanium Alloys – Customer Specs
Titanium Alloys – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Vacuum Heat Treating – Customer Specs
Vacuum Heat Treating – Industry Specs – Check any applicable boxes
 Industry Spec – Other

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

U11 The Boeing Company
U14 SAFRAN Group
U18 United Technologies Corp. – Hamilton Sundstrand
U3 Rolls–Royce

AC7102/3 Rev D - Nadcap Audit Criteria for Heat Treating - Carburizing (to be used on audits on/after 10 July 2016)

Carbonitriding – Customer Specs
Carbonitriding – Industry Specs – Check any applicable boxes
 Industry Spec – Other
Carburizing – Customer Specs
Carburizing – Industry Specs – Check any applicable boxes
 Industry Spec – Other

AC7102/4 Rev D - Nadcap Audit Criteria for Heat Treating - Gas, Ion/ Plasma and/or Salt Bath Nitriding (to be used on audits on/after 6 August 2017)

Nitriding – Customer Specs
Nitriding – Industry Specs – Check any applicable boxes
 Industry Spec – Other

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 – Portable – Check any applicable boxes

Hardness – Rockwell – Check any applicable boxes

AC7102/8 - Nadcap Audit Criteria for Heat Treating Pyrometry

Pyrometry – Customer Specs

Pyrometry – Industry Specs – Check any applicable boxes

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