

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

Element Hamburg

Lahnstrasse 26 Mulheim, 45478 Germany

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:

Materials Testing Laboratories

Certificate Number: 17174208634 Expiration Date: 31 August 2024 Accreditation Length: 18 Months

Jay Solomond

Executive Vice President & Chief Operating Officer



SCOPE OF ACCREDITATION

Materials Testing Laboratories

Element Hamburg Lahnstrasse 26 Mulheim, 45478 Germany

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

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

AC7101/3 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
- (A1) Room Temperature Tensile with Elastic (Young's) Modulus
- (N) Impact

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
- (L5) Near Surface Examinations Microindentation (Surface–Case Depth)

AC7101/5 Rev E - Nadcap Audit Criteria for Materials Testing Laboratories – Hardness Testing (Macro) (to be used on audits on/AFTER 07-May-2023)

- (M1) Brinell Hardness
- (M2) Rockwell Hardness
- (M3) Vickers Hardness
- (M4) Electrical Conductivity Inspection

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

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

(Z) Standard Specimen Machining

ISO/IEC - Currently accredited by an ILAC approved source

Lab Type - Lab Type

Independent

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