



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

voestalpine BOHLER Edelstahl GmbH & Co KG

*Mariazellerstrasse 25
Kapfenberg, 8605
Austria*

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: 4103179529
Expiration Date: 30 April 2022
Accreditation Length: 24 Months

Jay Solomond
Executive Vice President & Chief Operating Officer

SCOPE OF ACCREDITATION

Materials Testing Laboratories

voestalpine BOHLER Edelstahl GmbH & Co KG
Mariazellerstrasse 25
Kapfenberg, 8605
Austria

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:

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

AC7101/2 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Chemical Analysis (to be used on audits before 30 August 2020)

- (D) Wet Chemistry (Gravimetric)
 - (F) Atomic or Optical Emission Spectroscopy (AES or OES)
 - (F2) Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP–OES/AES)
 - (F3) Atomic Emission Spectroscopy – Spark/Arc (S/A–OES)
 - (G) Elemental Analysis (Combustion or Fusion)
 - (G1) – Carbon
 - (G2) – Hydrogen
 - (G3) – Nitrogen
 - (G4) – Oxygen
 - (G5) – Sulfur
 - (S) X–Ray Fluorescence (XRF)
 - (V) Mass Spectrometry
- Specify the Alloy Base for Accreditation
- Fe Base
 - Ni Base
 - Ti Base

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

- (A) Room Temperature Tensile
- (B) Elevated Temperature Tensile
- (C) Stress Rupture
- (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
(L8) Near Surface Examinations – Alpha Case: Wrought Titanium
(XL) Macro Examination

AC7101/5 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Hardness Testing (Macro) (to be used on audits on/after 22 March 2015)

(M1) Brinell Hardness
(M2) Rockwell Hardness
(M3) Vickers Hardness

AC7101/6 Rev C - Nadcap Audit Criteria for Materials Testing Laboratories – Corrosion (to be used before 1 July 2018)

(Q1) Stress Corrosion

AC7101/7 Rev D - Nadcap Audit Criteria for Materials Testing Laboratories – Mechanical Testing Specimen Preparation (to be used on audits on/after 15 May 2016)

(Z) Standard Specimen Machining

AC7101/9 Rev B - Nadcap Audit Criteria for Materials Testing Laboratories – Specimen Heat Treating (to be used on/after 28 August, 2011 and before 15 January 2017)

ISO/IEC - Currently accredited by an ILAC approved source

Lab Type - Lab Type

Captive